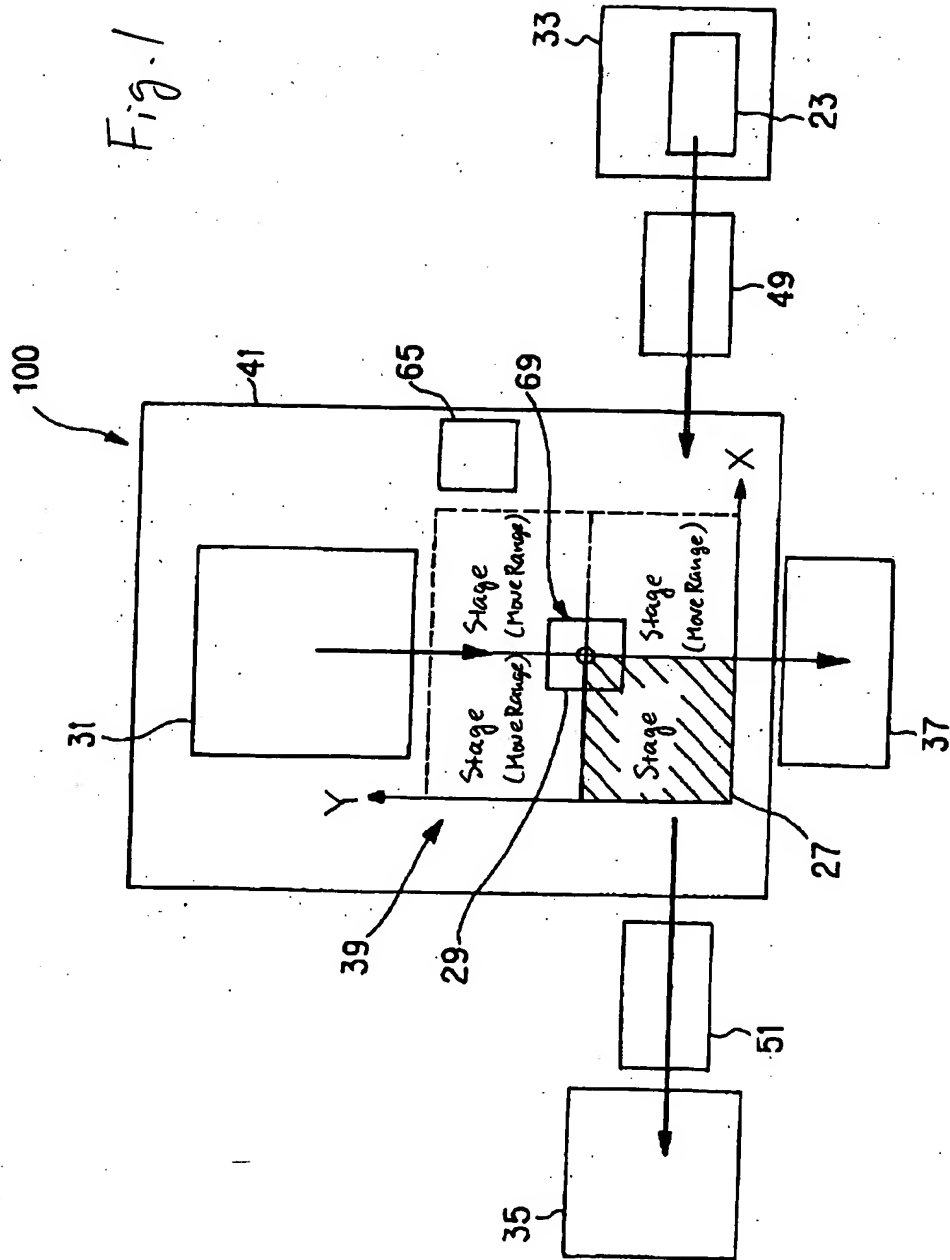


Fig. 1



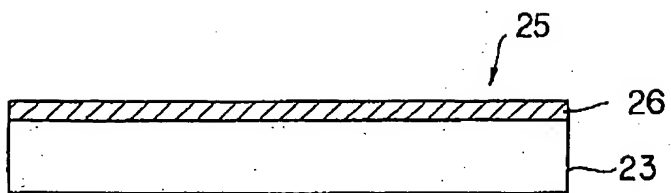


Fig. 2

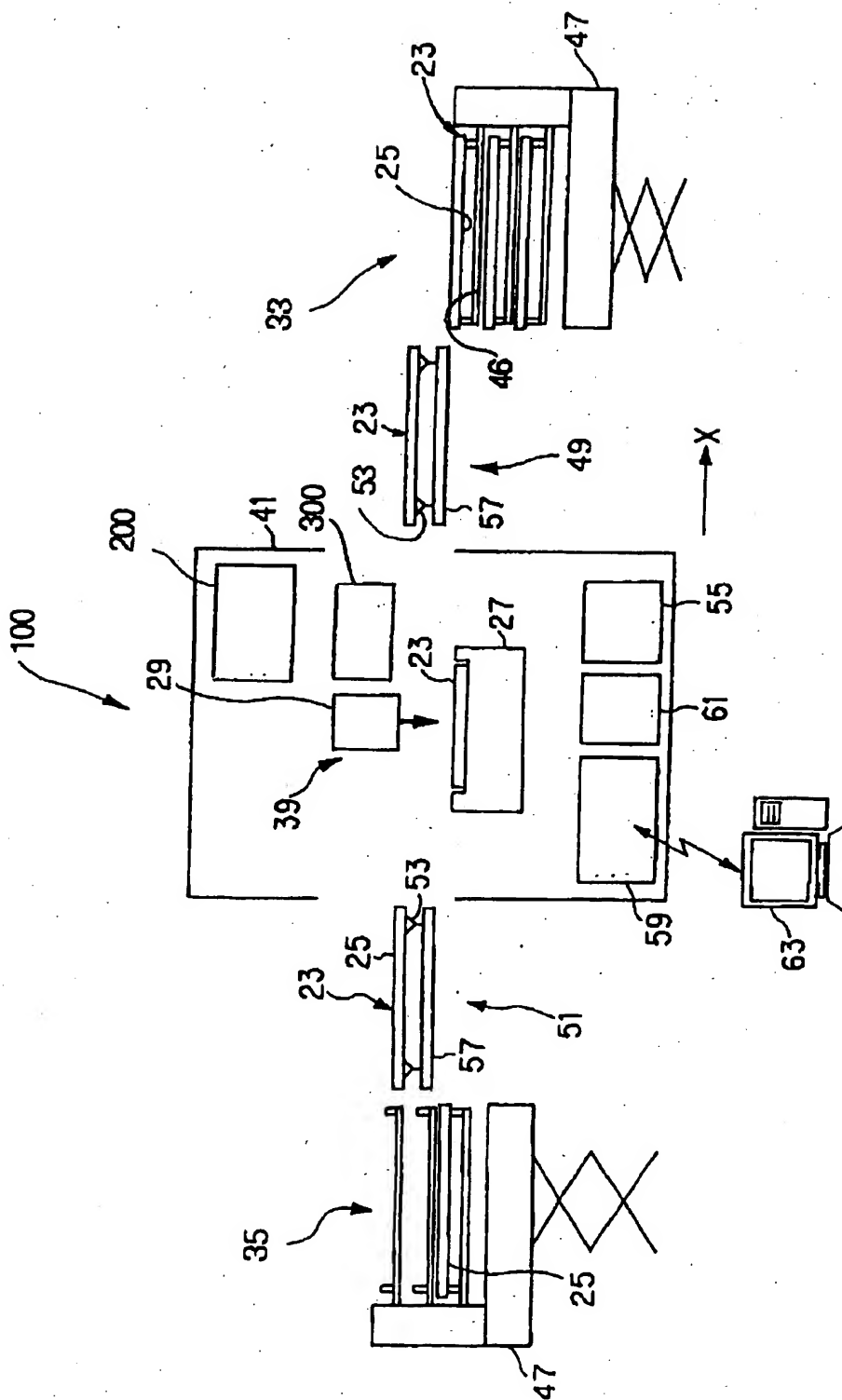


Fig. 3

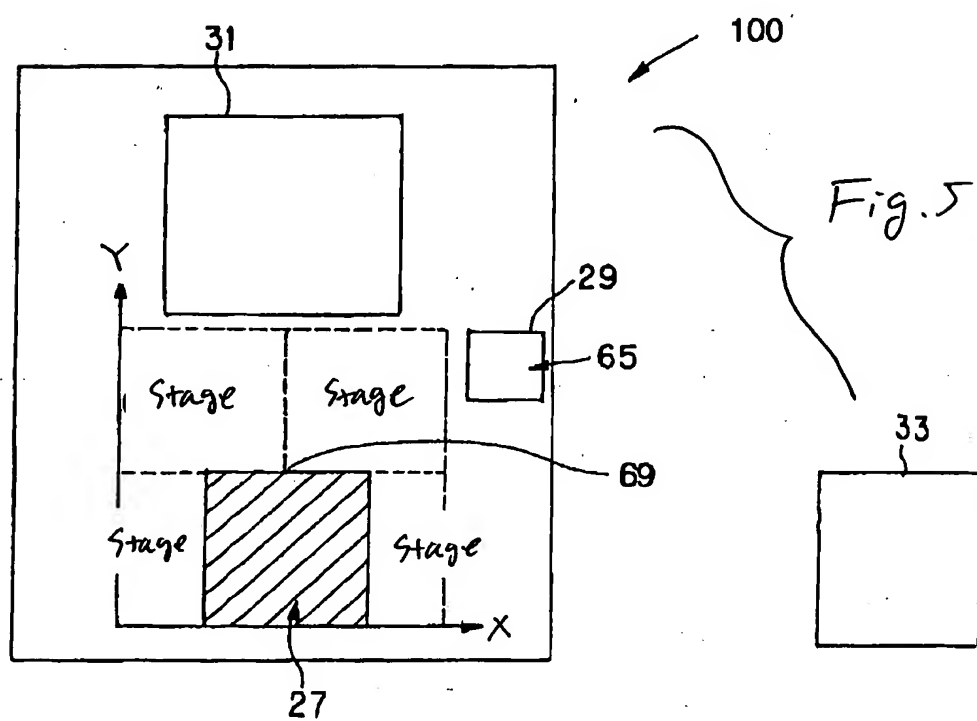
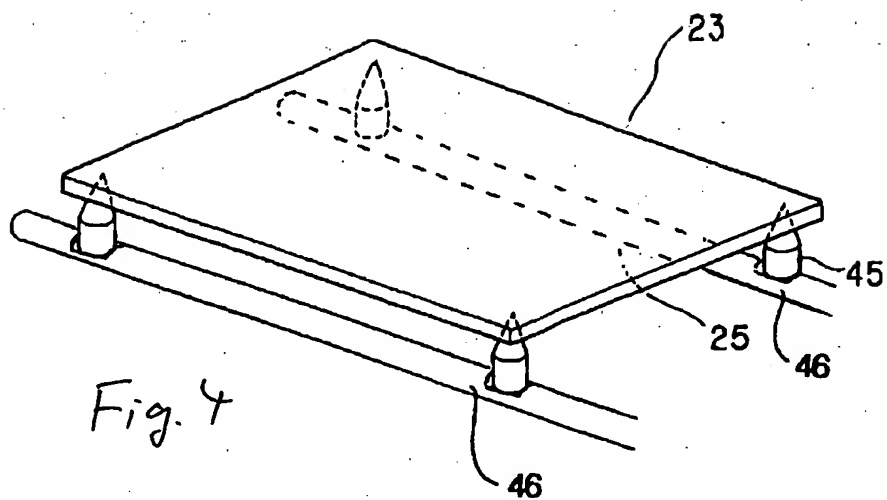


Fig. 6 (a)

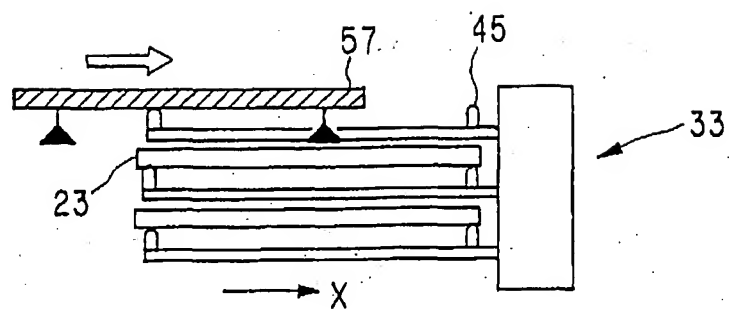


Fig. 6 (b)

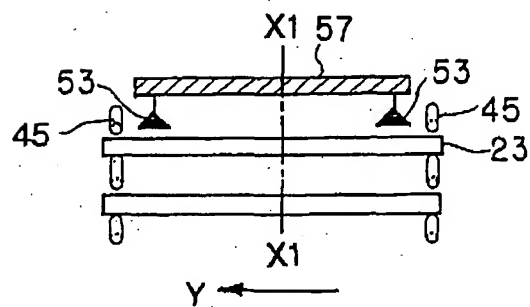


Fig. 6 (c)

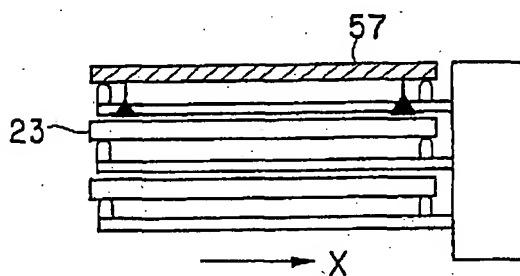


Fig. 6 (d)

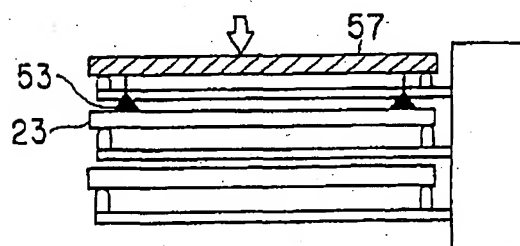


Fig. 7 (e)

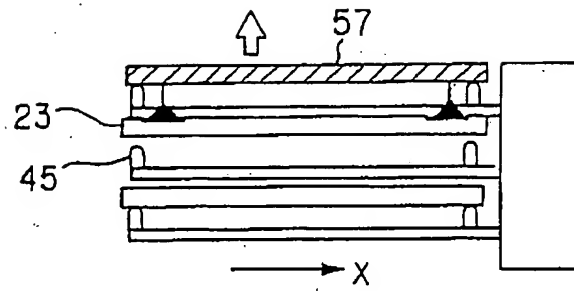


Fig. 7 (f)

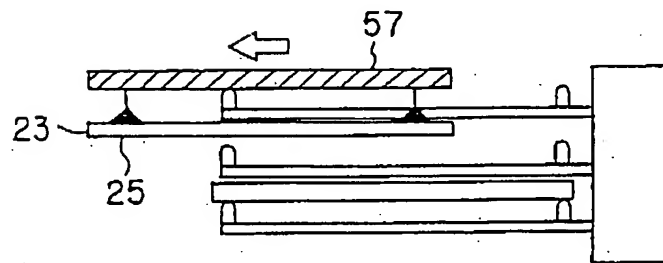


Fig. 7 (g)

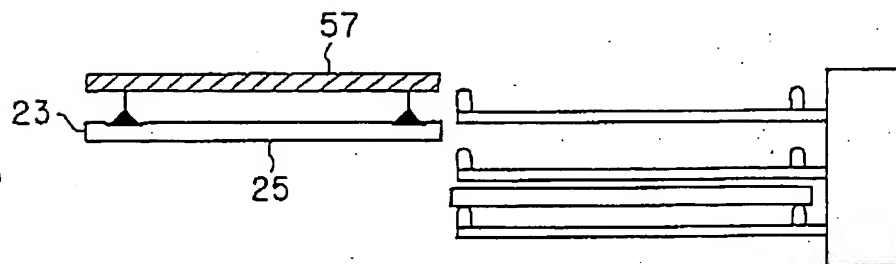
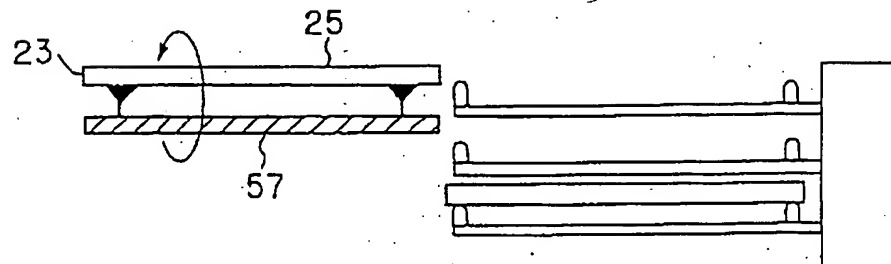


Fig. 7 (h)



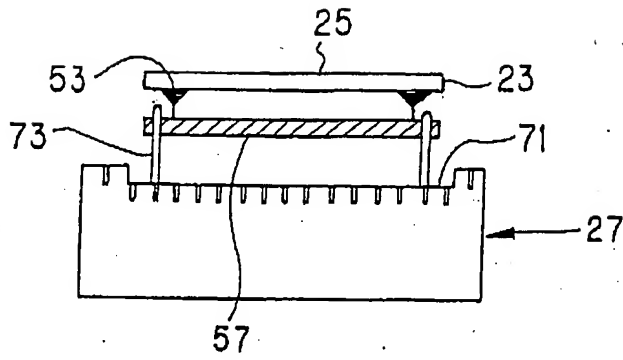


Fig. 8

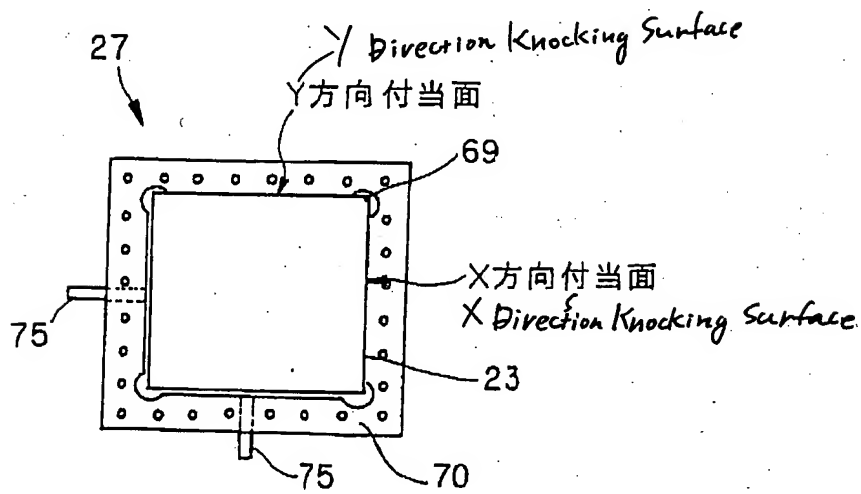


Fig. 9

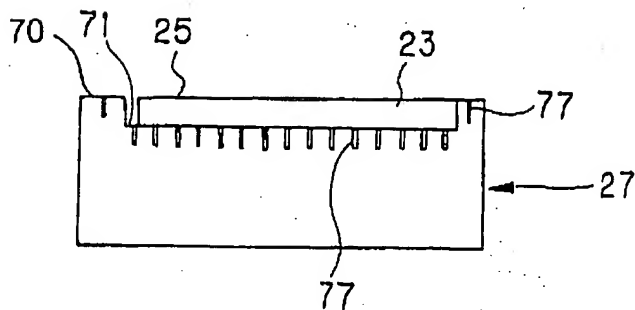


Fig. 10

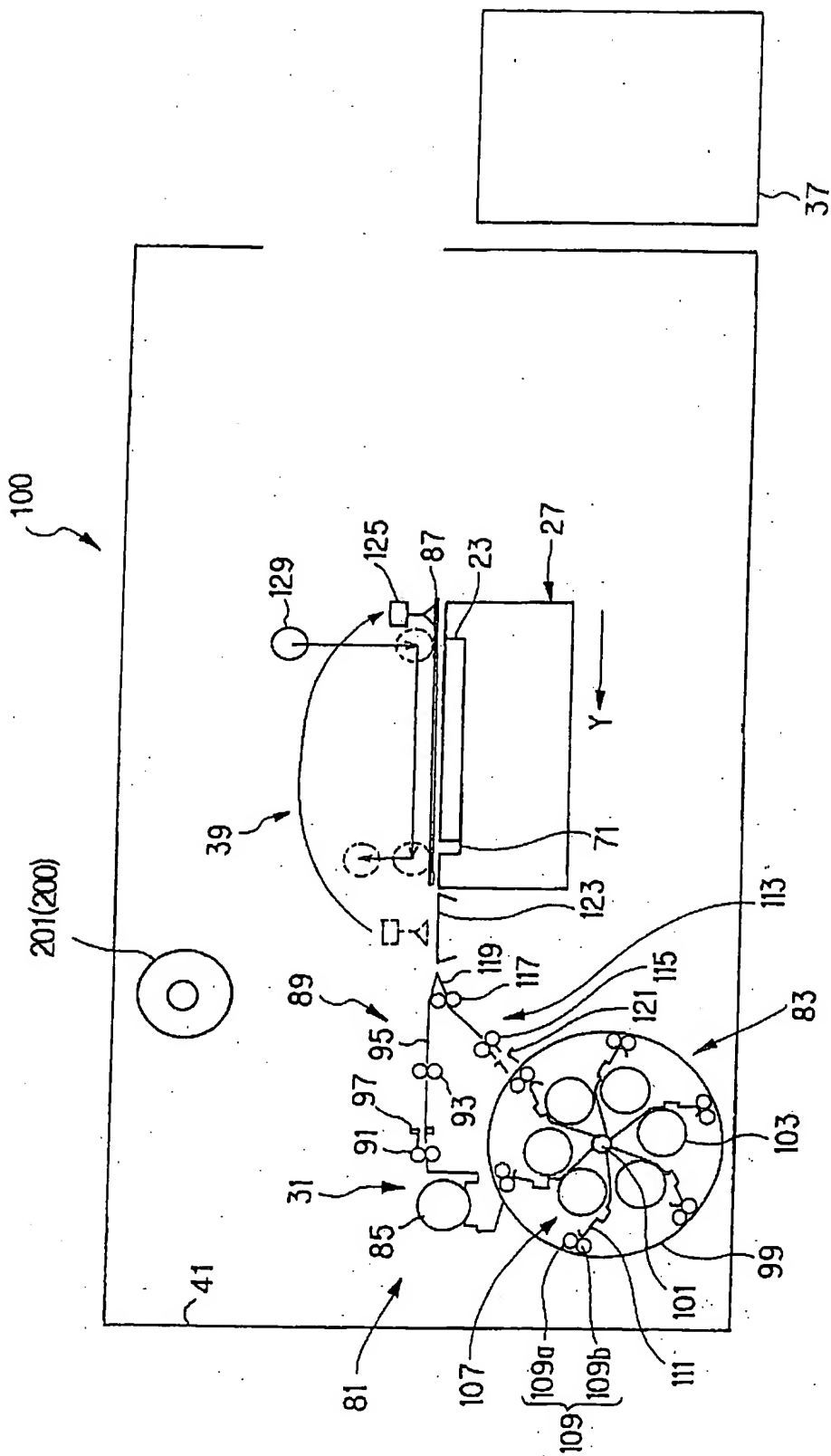


Fig. 11

Fig. 12 (a)

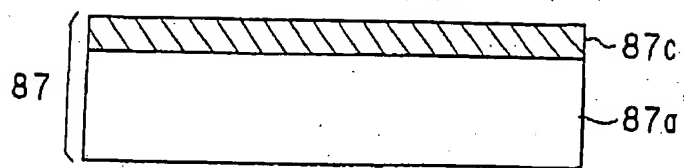


Fig. 12 (b)

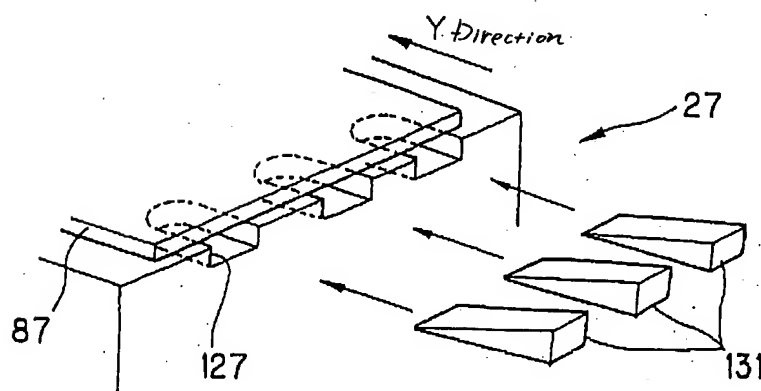
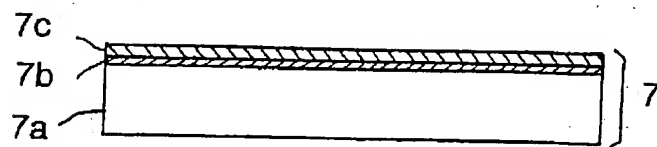
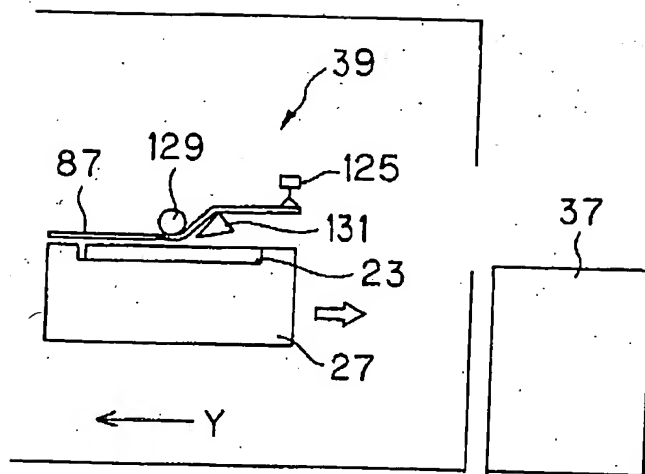


Fig. 13

(a)



(b)

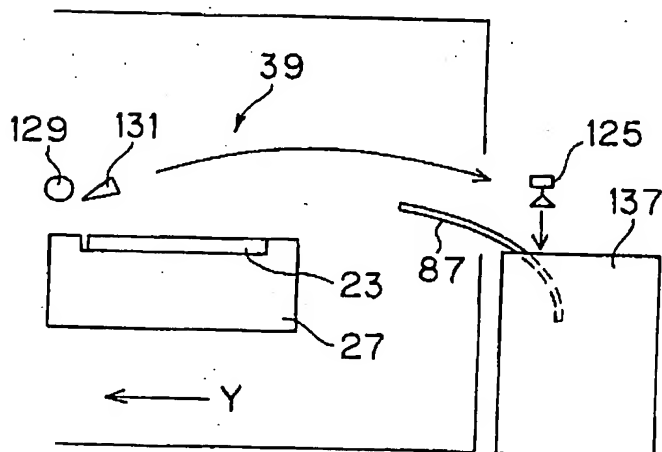


Fig. 14

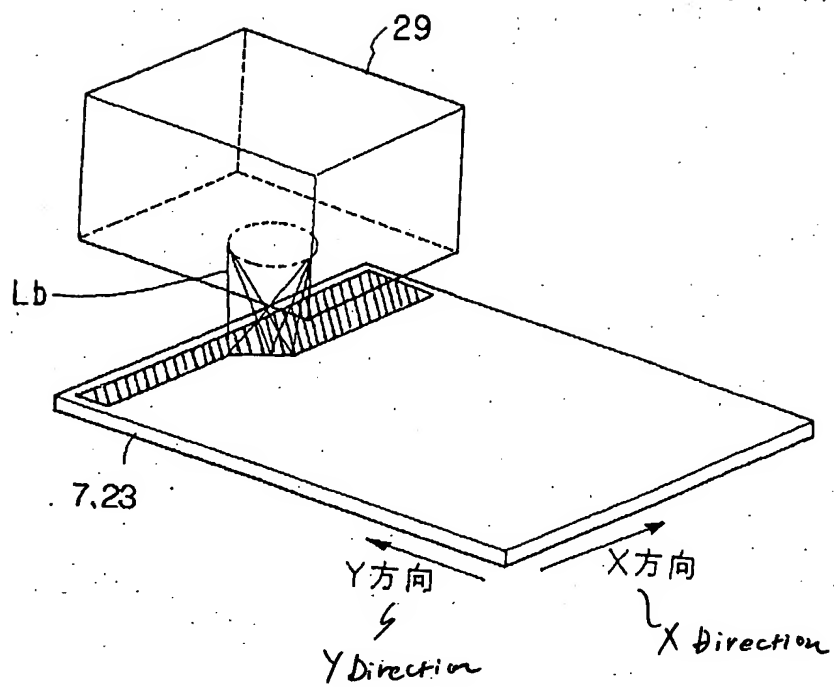


Fig.15

Fig. 16(a)

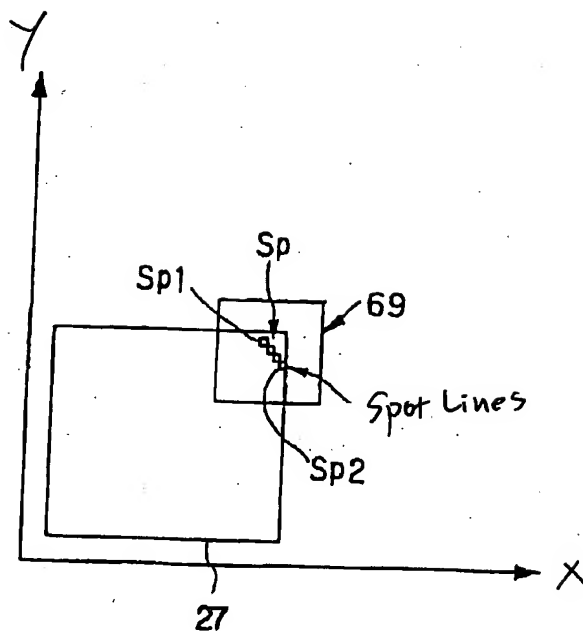
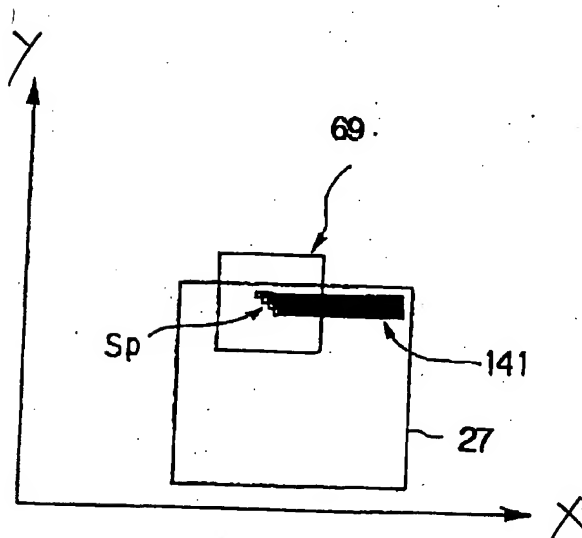


Fig. 16(b)



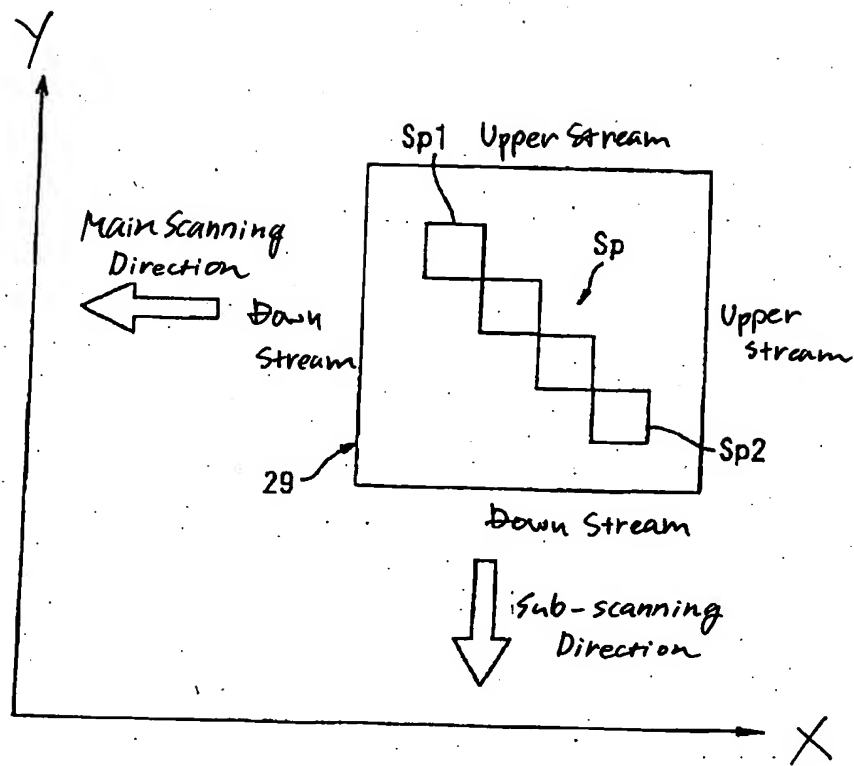


Fig. 17

Fig. 18

a) Recording process view

1. Fix a support member to a stage
2. Superpose an image receiving sheet on the support member
3. Laminate the image receiving sheet (in some cases)
4. Separate the image receiving sheet → Form an image receiving layer on the support member

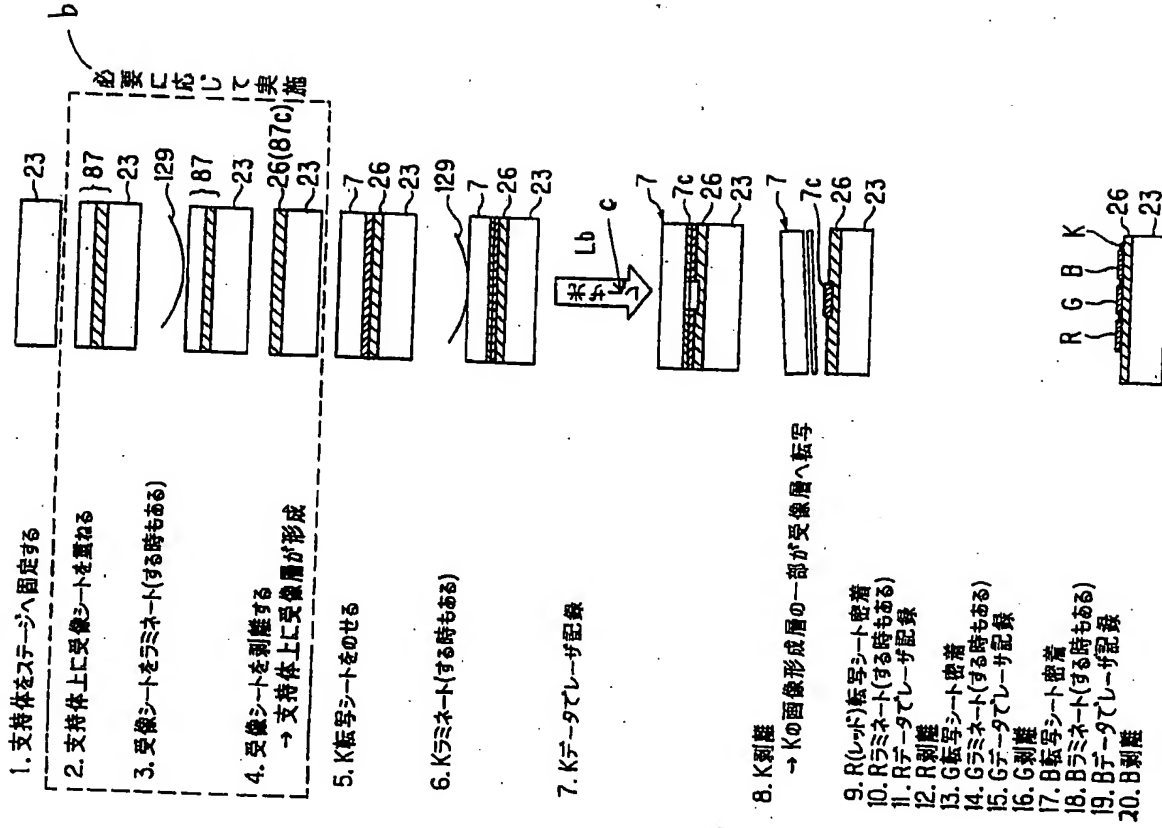
5. Mount a K transfer sheet
6. Laminate K (in some cases)
7. Carry out laser recording based on K data
8. Separate K → Transfer a part of an image forming layer for K onto the image receiving layer
9. Hermetically bond an R (red) transfer sheet

10. Laminate R (in some cases)
11. Carry out laser recording based on R data
12. Separate R
13. Hermetically bond a G transfer sheet
14. Laminate G (in some cases)
15. Carry out laser recording based on G data
16. Separate G
17. Hermetically bond a B transfer sheet
18. Laminate B (in some cases)
19. Carry out laser recording based on B data
20. Separate B

b) Execution if necessary

- c) Laser beam

2) 記録工程図



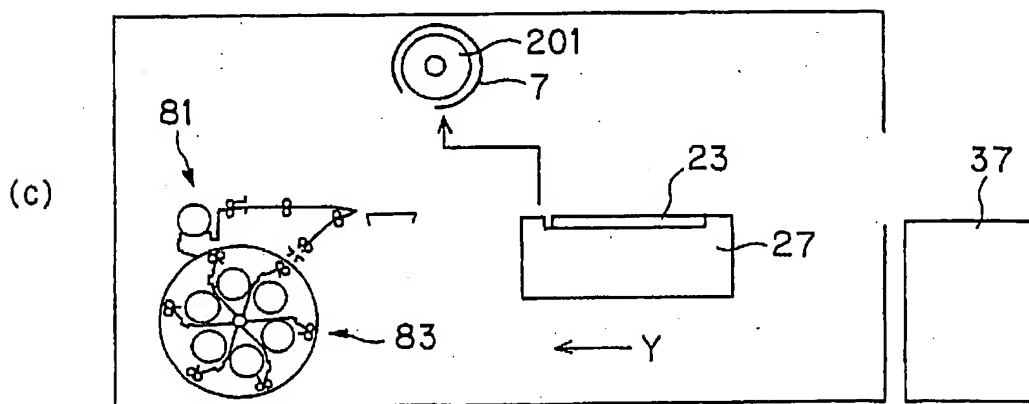
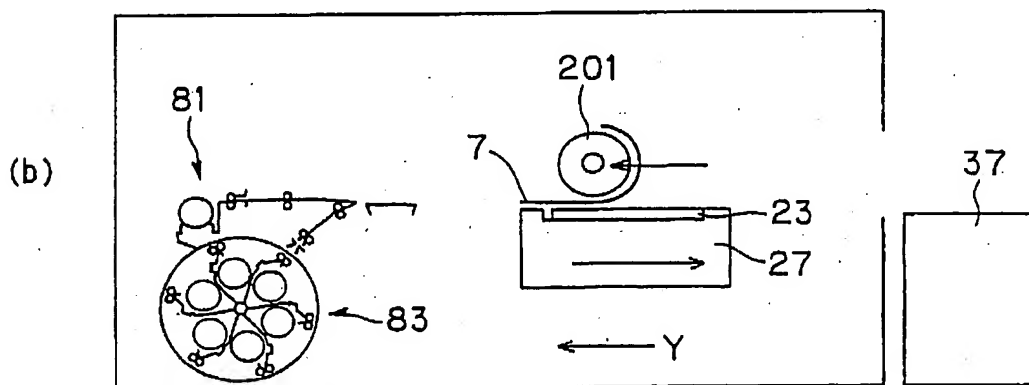
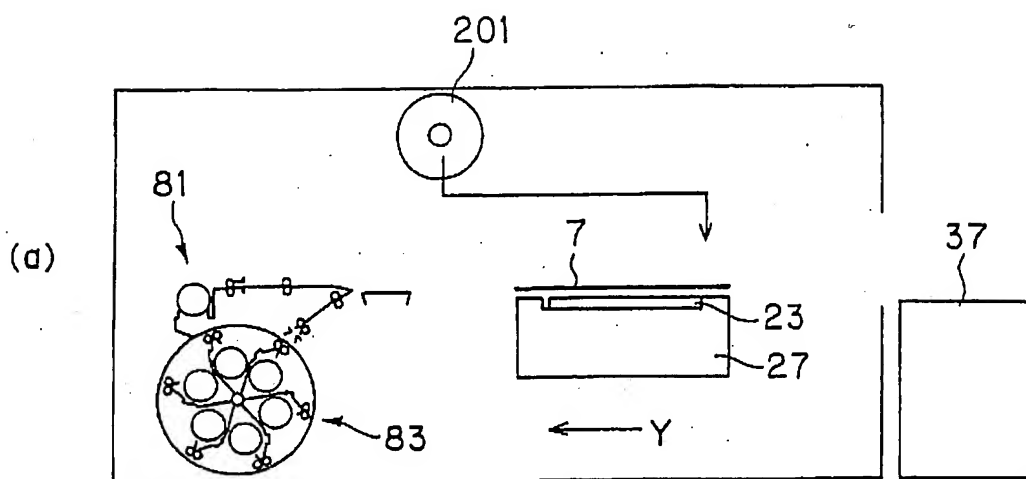


Fig. 19

Fig. 20(a)

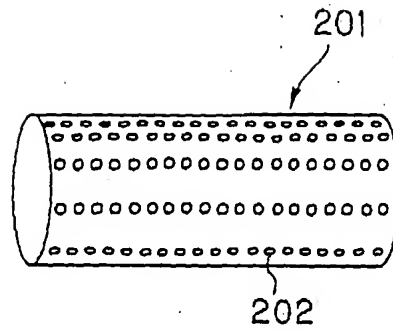


Fig. 20(b)

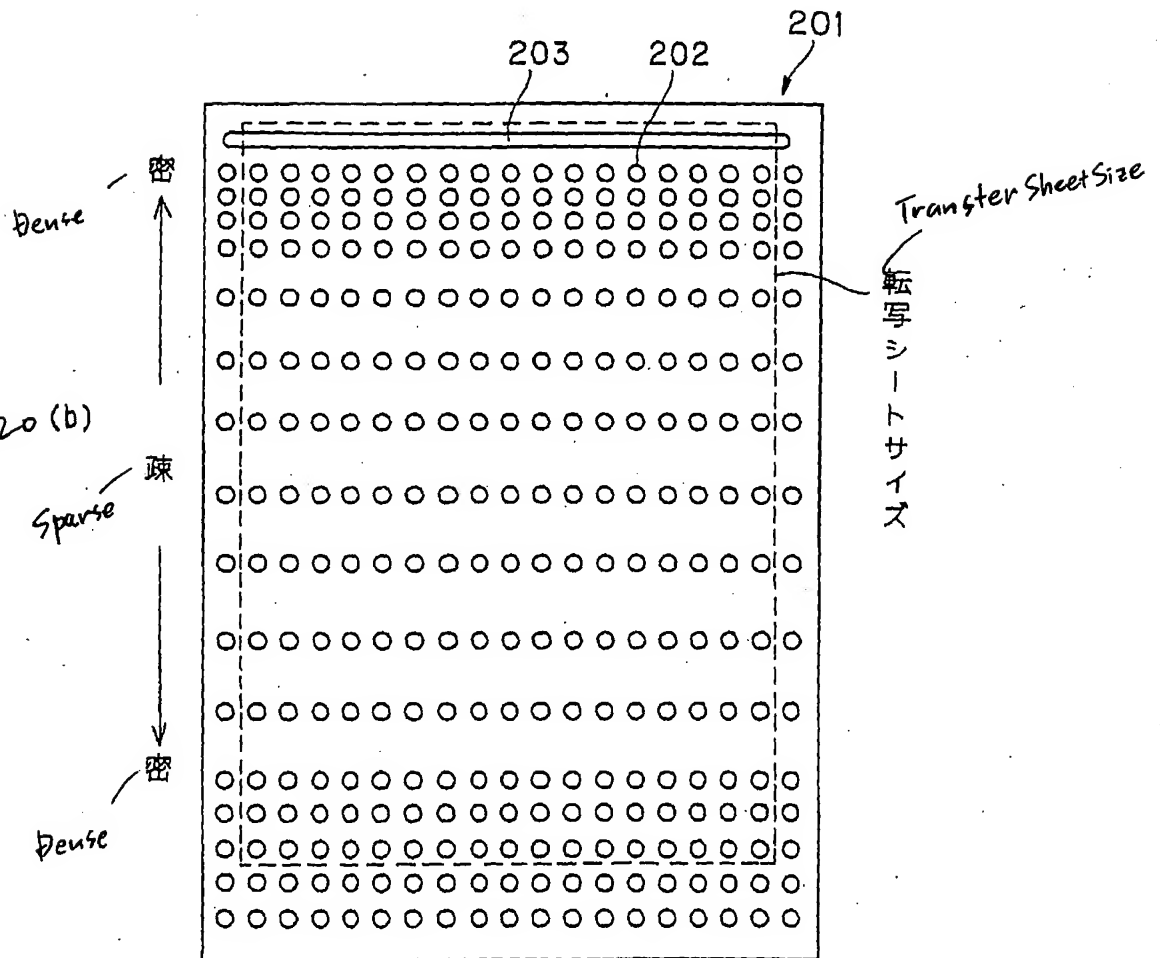
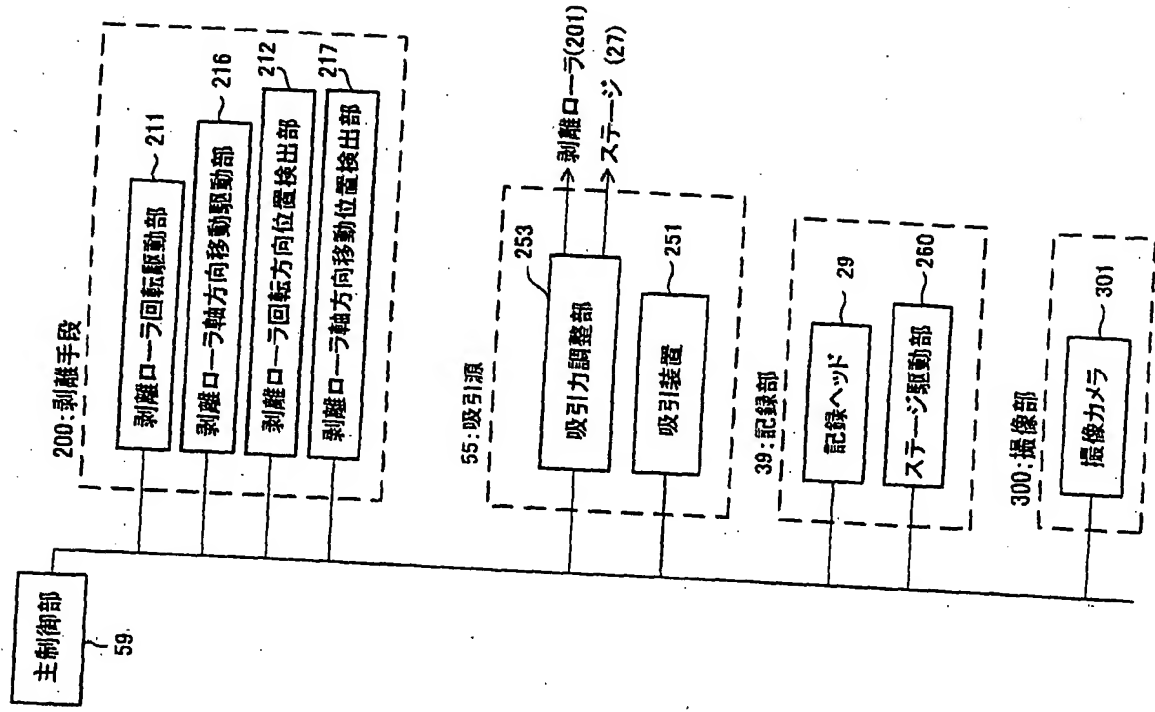


Fig. 21



- (59) main control section
- (200) separating means
- (211) separating roller rotation driving section
- (212) separating roller rotating direction position detecting section
- (216) separating roller axial direction movement driving section
- (217) separating roller axial direction moving position detecting section
- (55) sucking source
- (27) stage
- (201) separating roller
- (251) sucking device
- (253) sucking force regulating section
- (39) recording section
- (29) recording head
- (260) stage driving section
- (300) image pick-up section
- (301) image pick-up camera

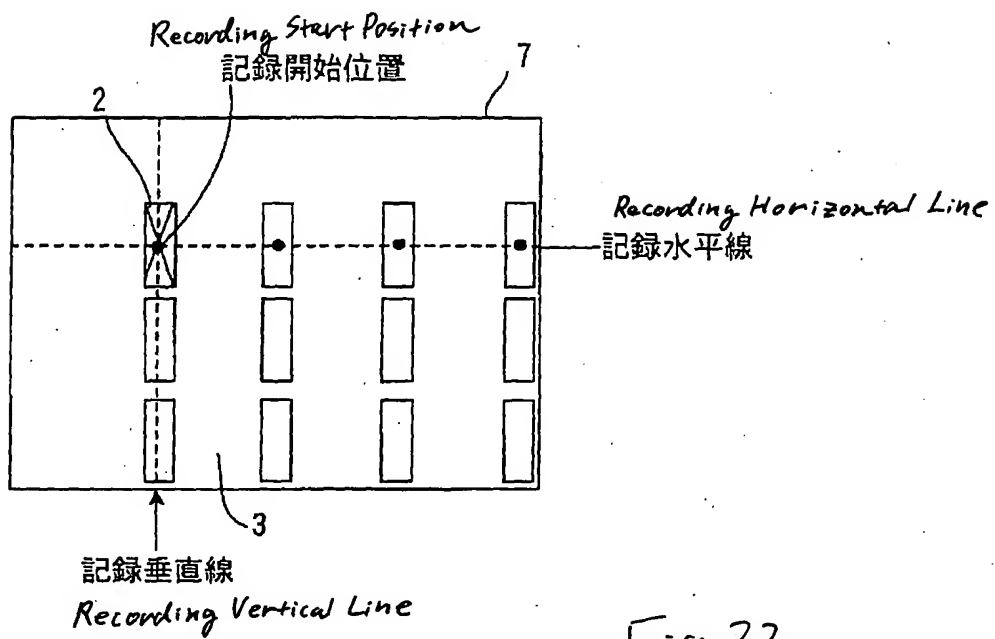
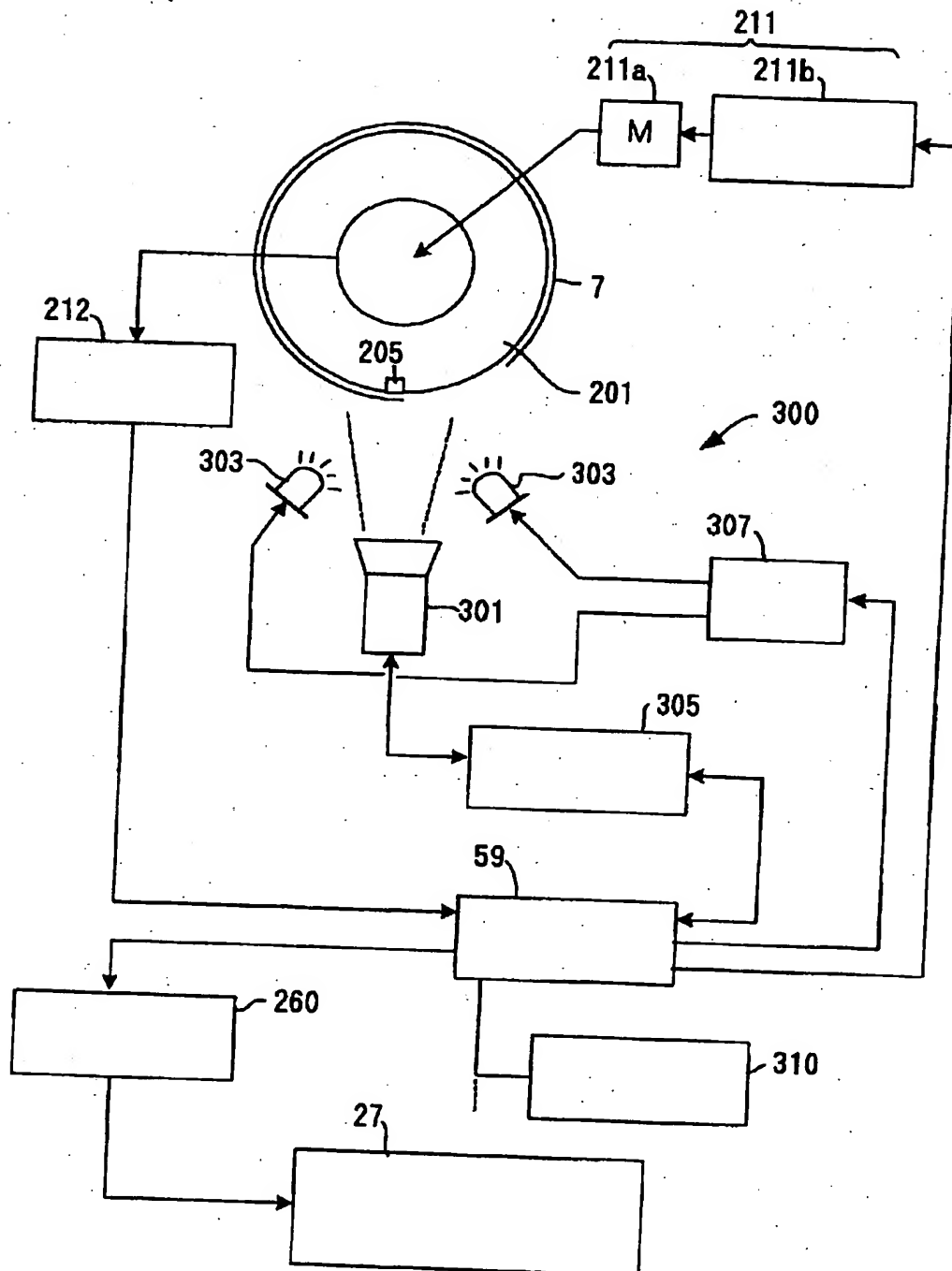


Fig. 22

Fig. 23



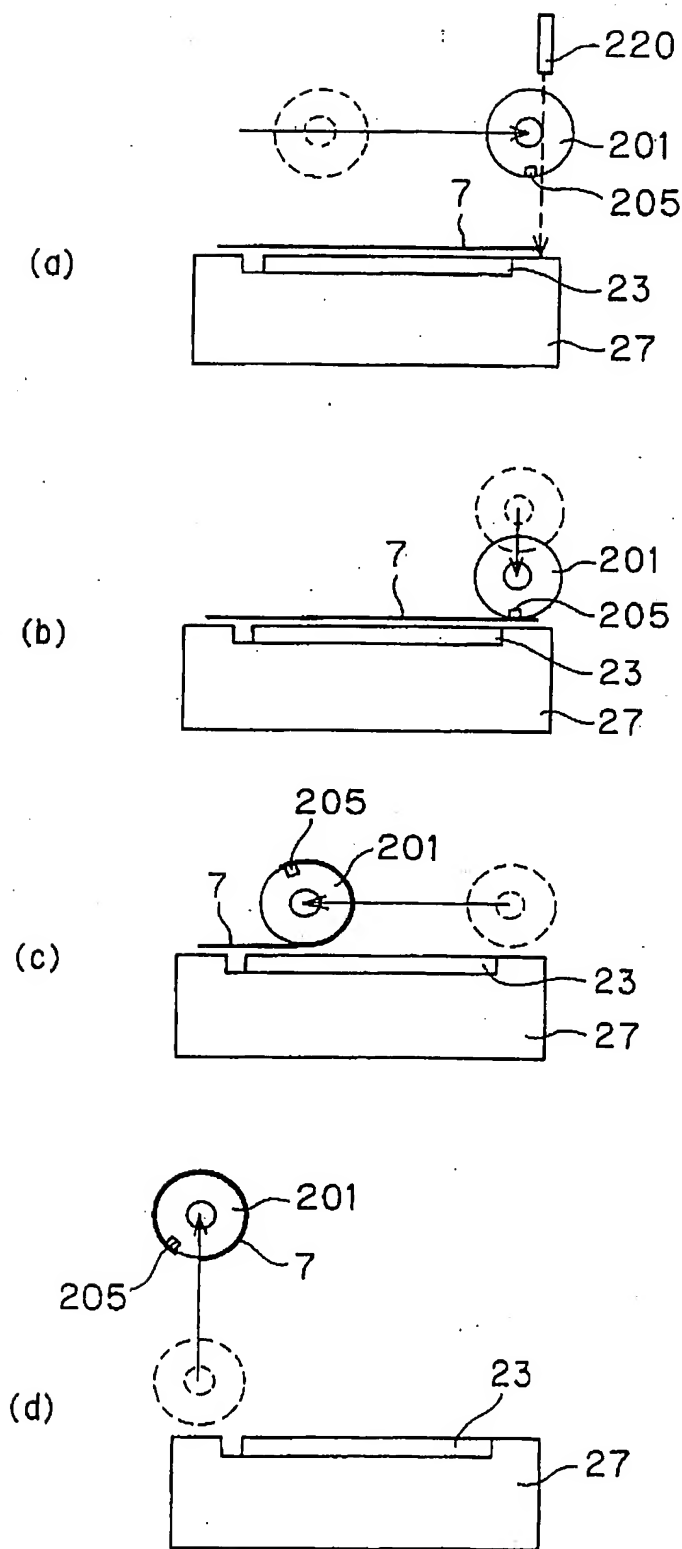


Fig. 24

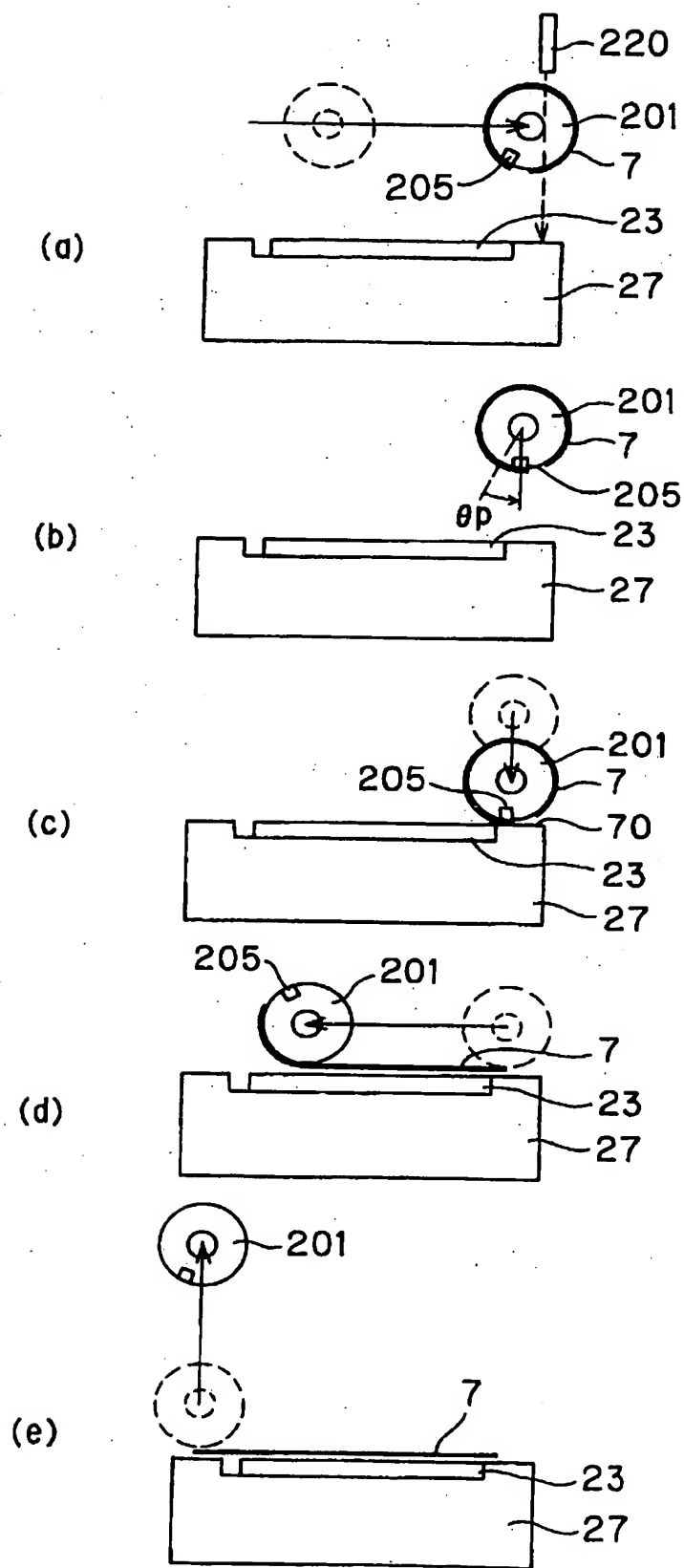


Fig. 25

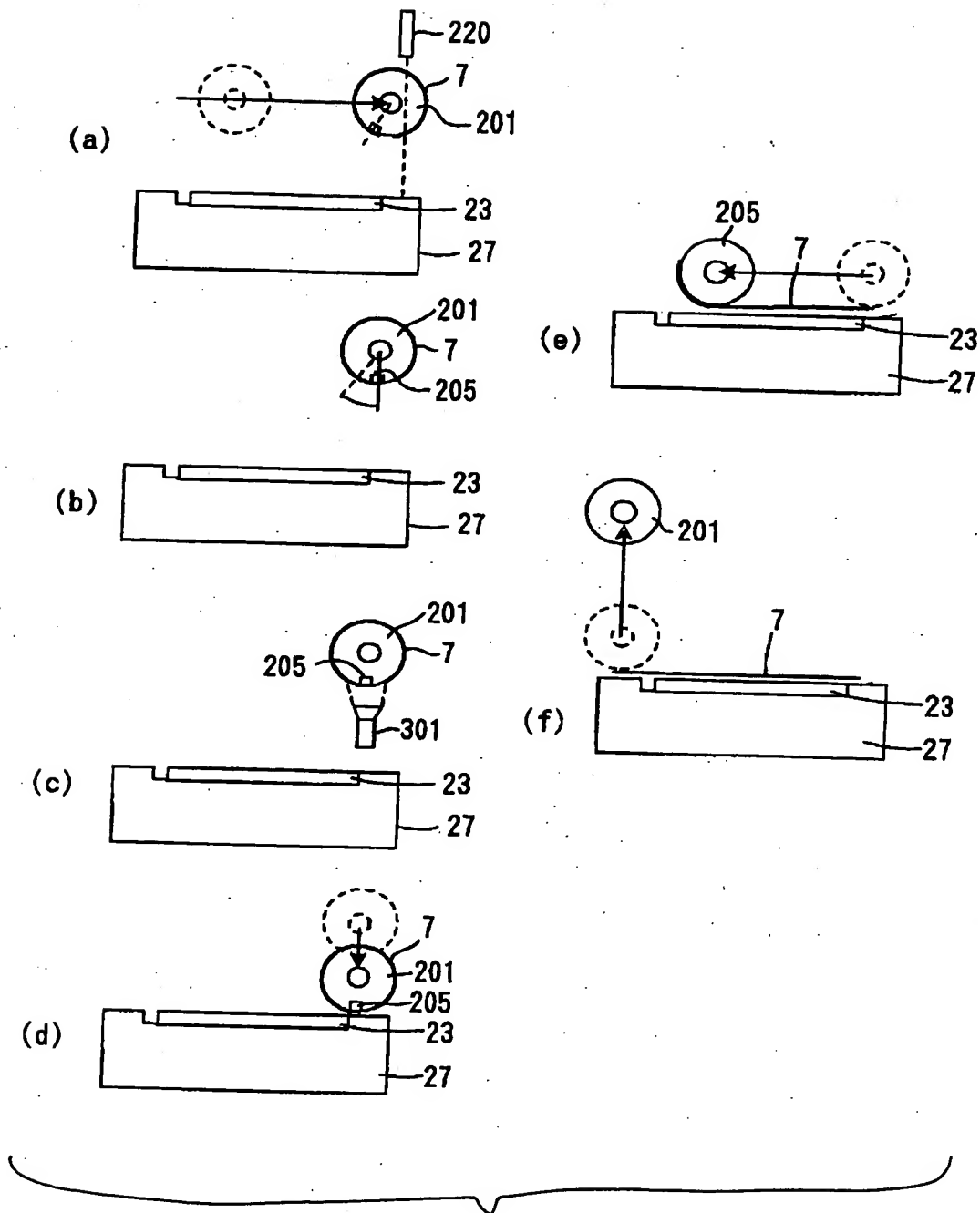


Fig. 26

Fig. 27 (a)

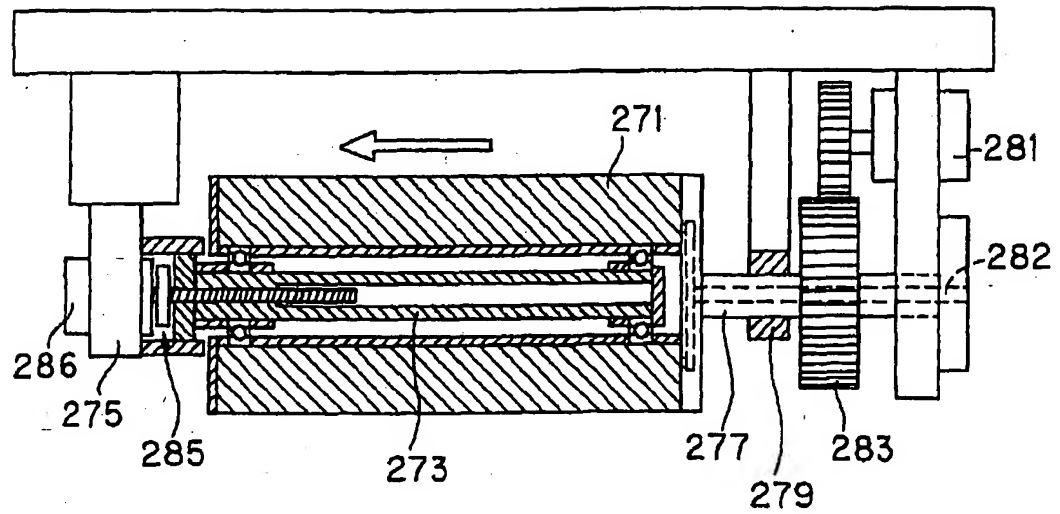
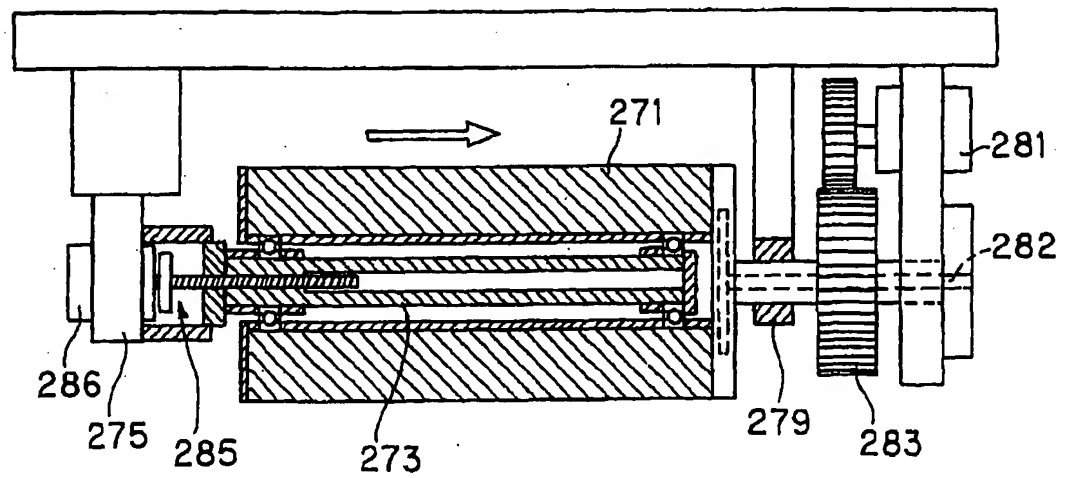


Fig. 27 (b)



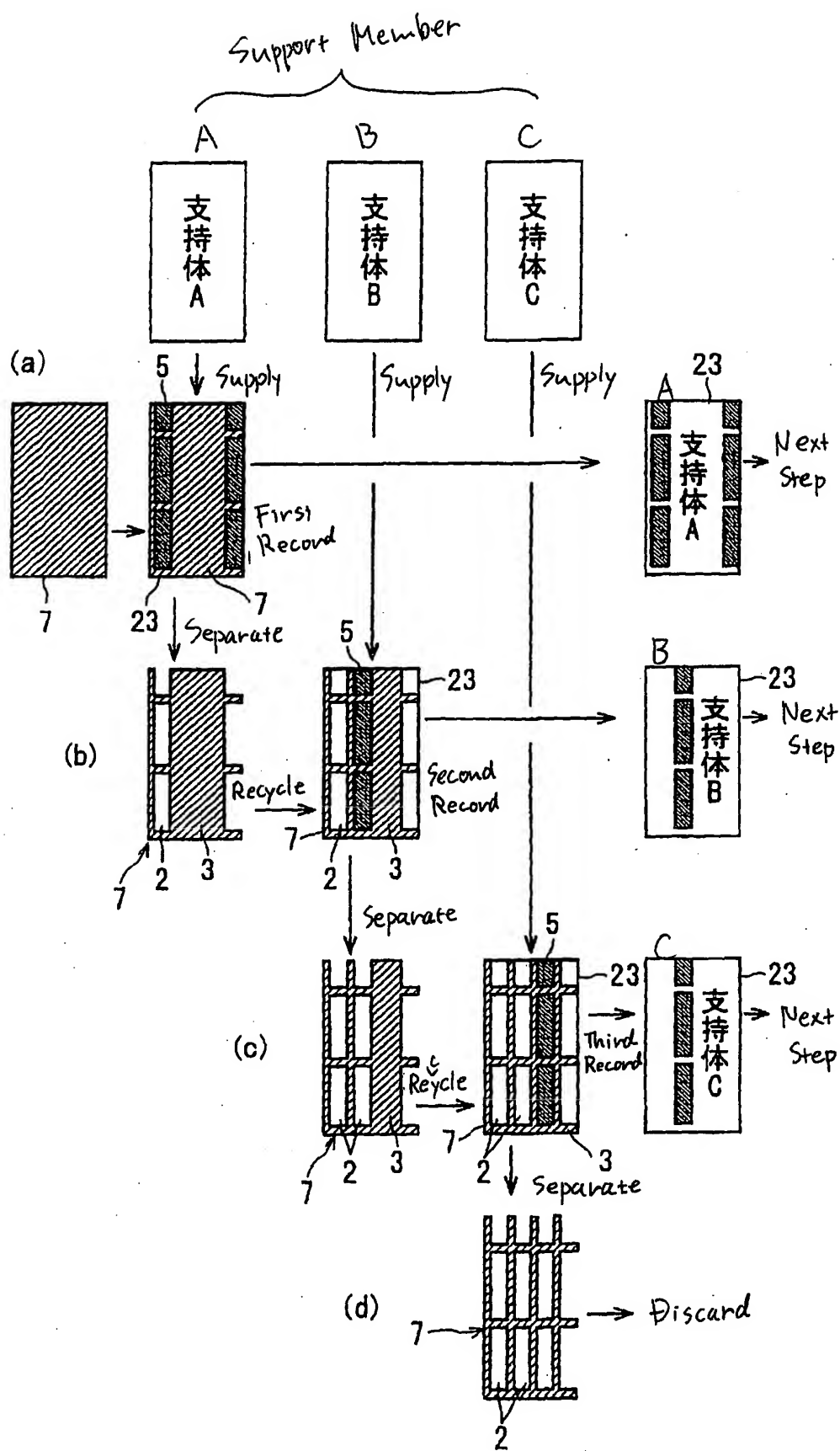


Fig. 28

Fig. 29

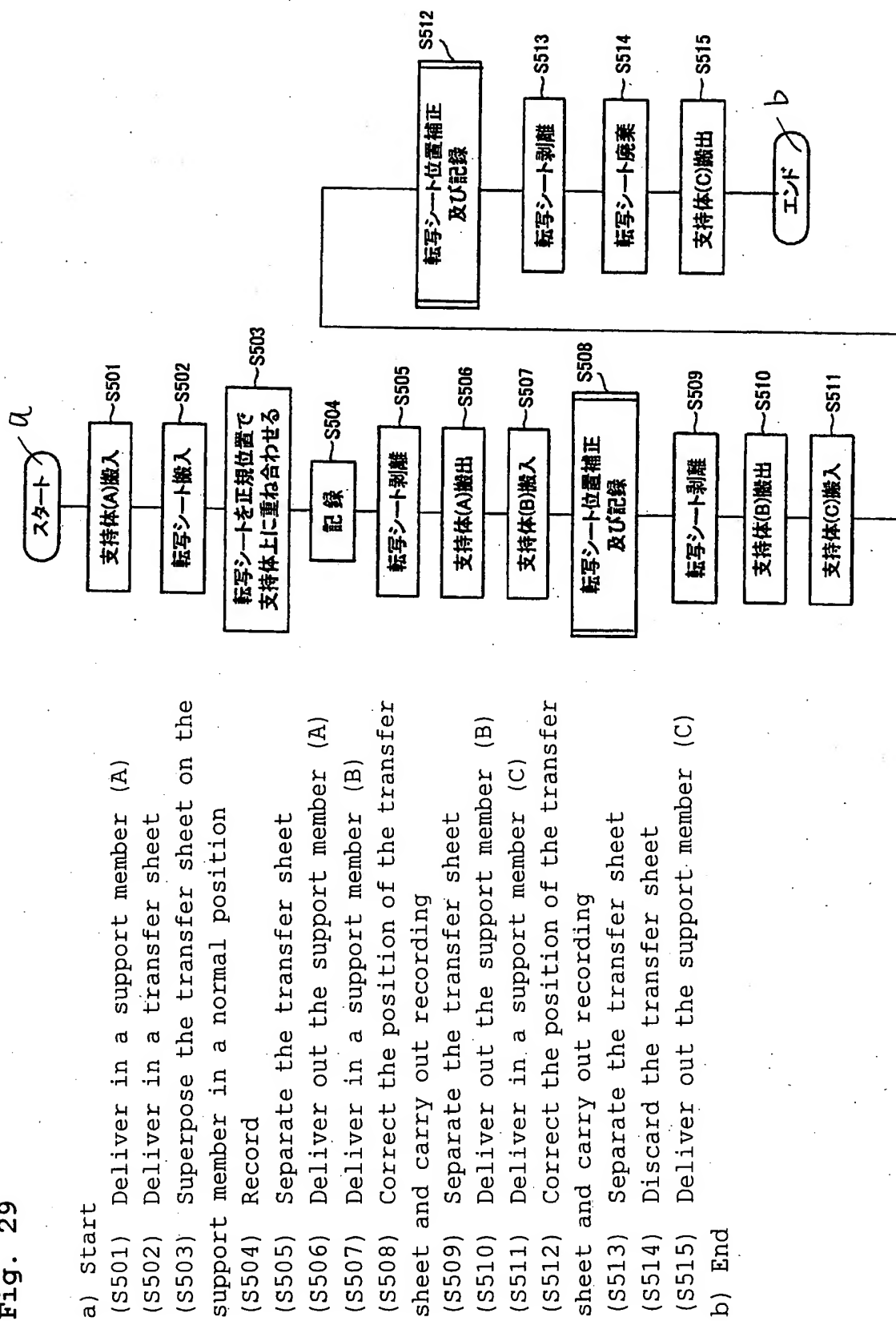


Fig. 30

- a) Start
 (S601) Detect a recording position on a transfer sheet (a recording start position and an inclination angle)
 (S602) Correct the position of the transfer sheet based on a result of the detection of the recording start position and the inclination angle (by means of a separating roller and a stage)
 (S603) Superpose the transfer sheet obtained after the correction of the position on a support member in a normal position
 (S604) Shift a recording position at a predetermined pitch and carry out recording
 b) Return

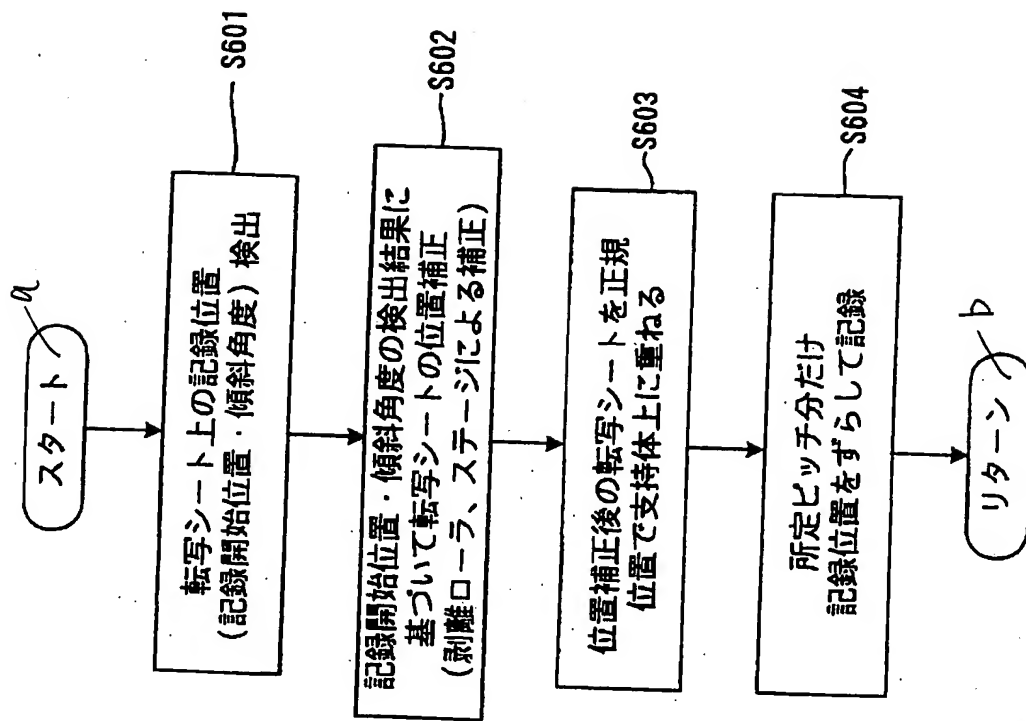
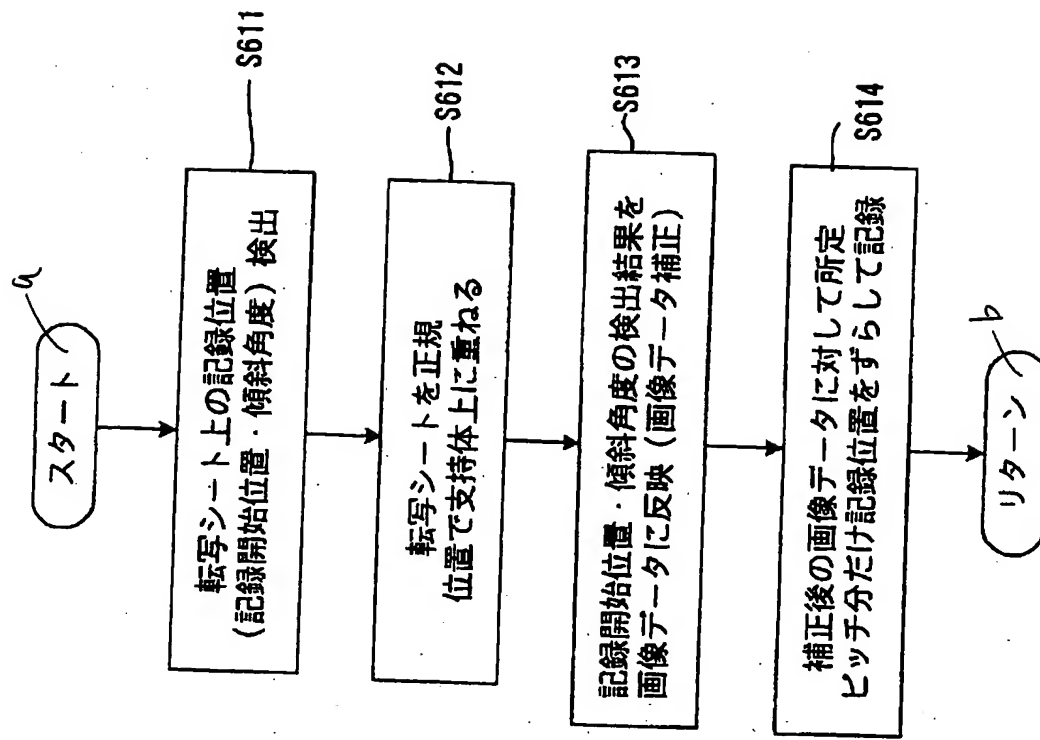


Fig. 31

- a) Start
 (S611) Detect a recording position on a transfer sheet (a recording start position and an inclination angle)
 (S612) Superpose the transfer sheet on a support member in a normal position
 (S613) Reflect a result of the detection of the recording start position and the inclination angle on image data (image data correction)
 (S614) Shift the recording position at a predetermined pitch with respect to the corrected image data and carry out recording
 b) Return



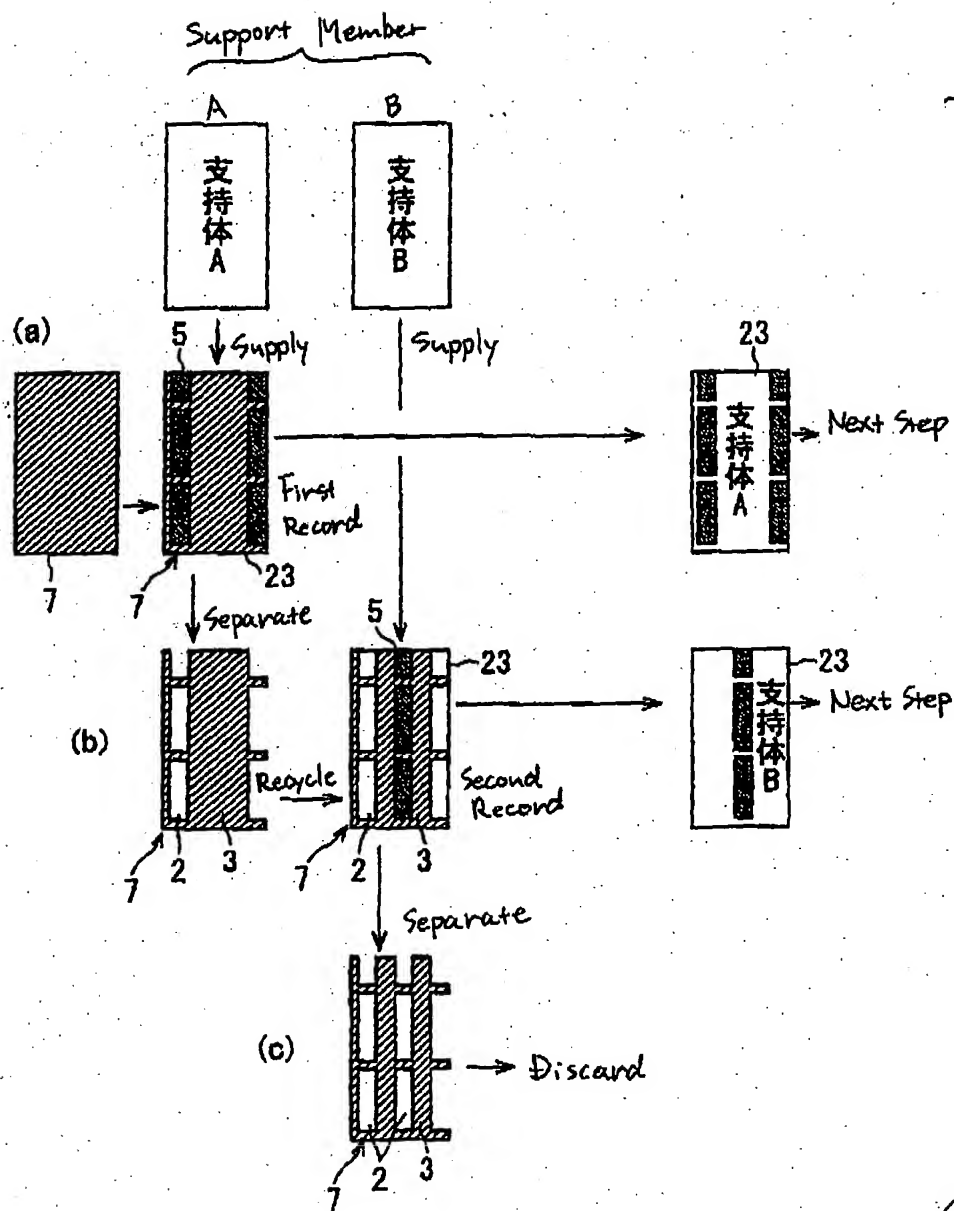
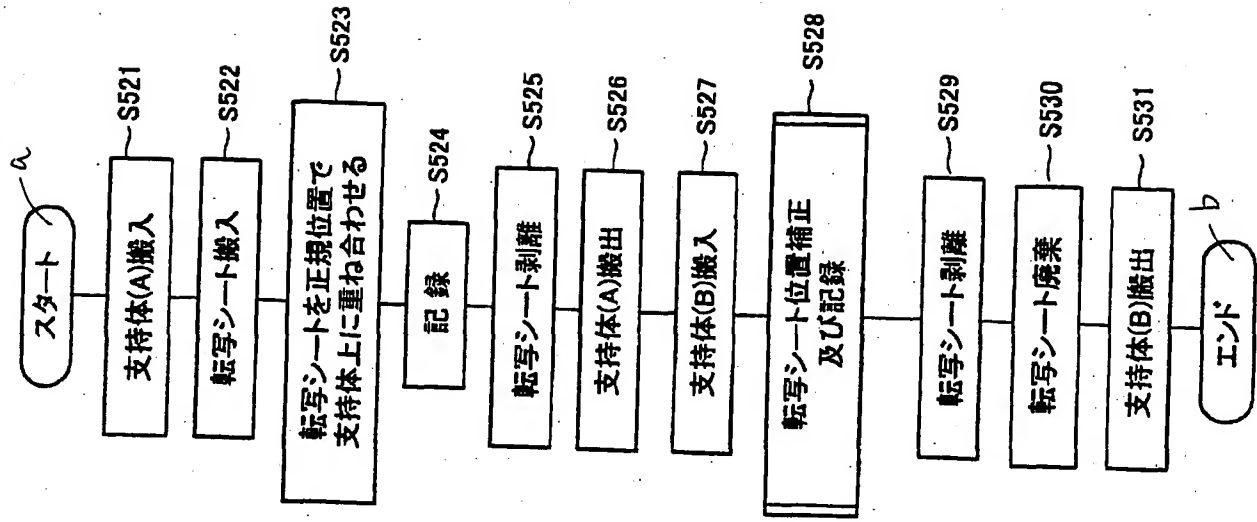


Fig. 33

- a) Start
- (S521) Deliver in a support member (A)
 - (S522) Deliver in a transfer sheet
 - (S523) Superpose the transfer sheet on the support member in a normal position
 - (S524) Record
 - (S525) Separate the transfer sheet
 - (S526) Deliver out the support member (A)
 - (S527) Deliver in a support member (B)
 - (S528) Correct the position of the transfer sheet and carry out recording
 - (S529) Separate the transfer sheet
 - (S530) Discard the transfer sheet
 - (S531) Deliver out the support member (B)
- b) End



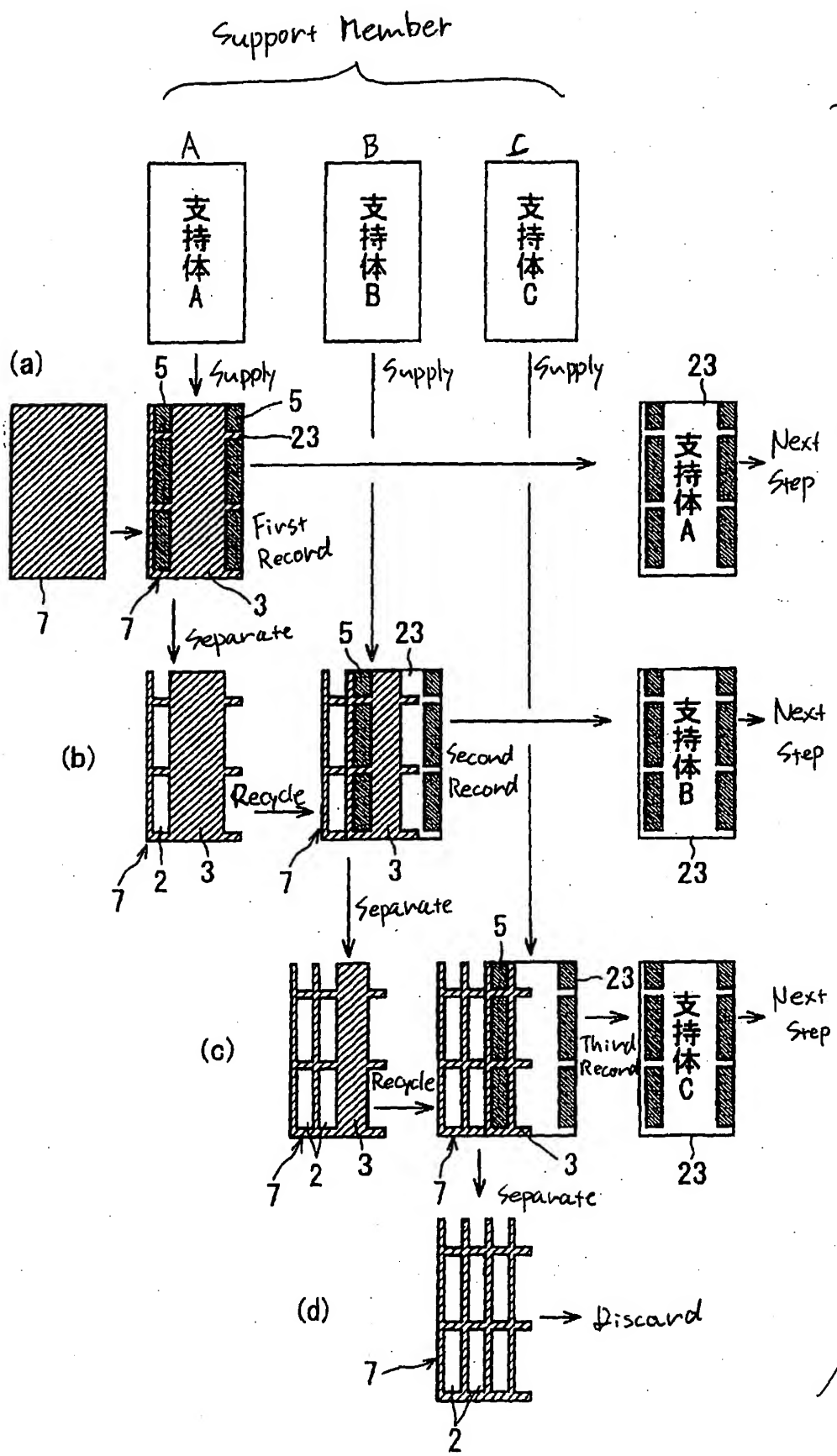
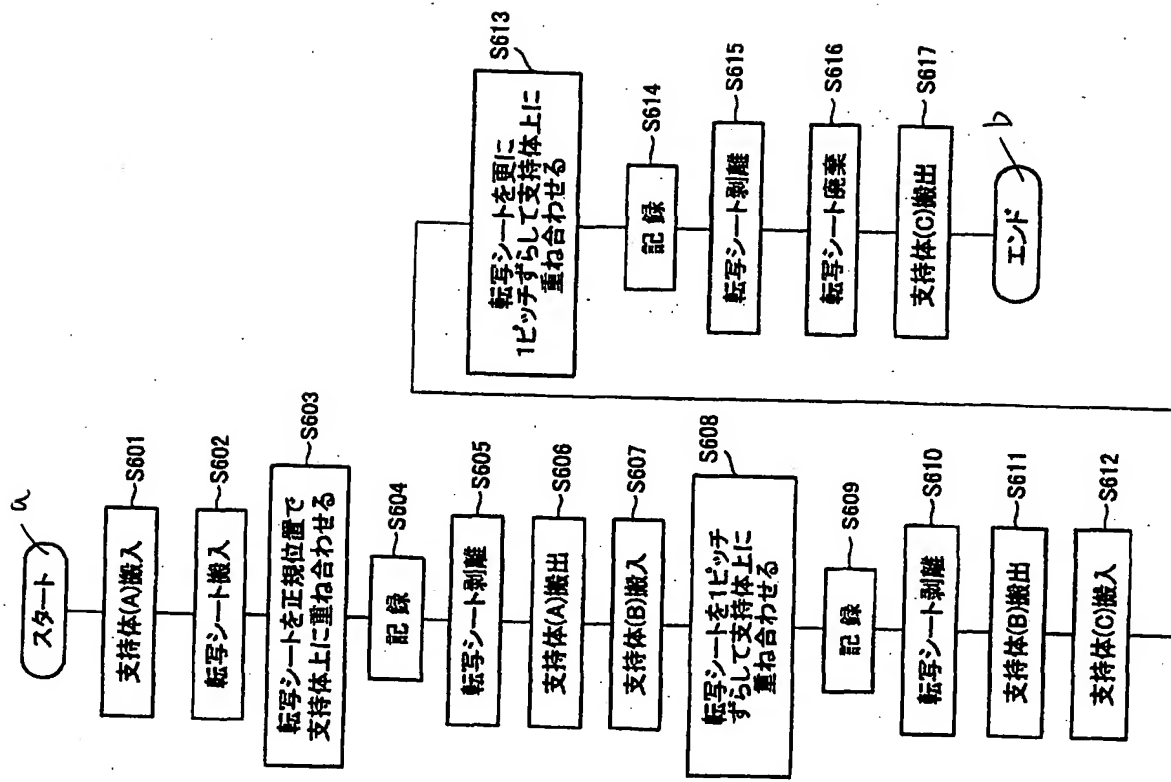


Fig.34

Fig. 35



a) Start

(S601) Deliver in a support member (A)

(S602) Deliver in a transfer sheet

(S603) Superpose the transfer sheet on the support member in a normal position

(S604) Record

(S605) Separate the transfer sheet

(S606) Deliver out the support member (A)

(S607) Deliver in a support member (B)

(S608) Shift the transfer sheet at one pitch and superpose the transfer sheet on the support member

(S609) Record

(S610) Separate the transfer sheet

(S611) Deliver out the support member (B)

(S612) Deliver in a support member (C)

(S613) Shift the transfer sheet at one more pitch and superpose the transfer sheet on the support member

(S614) Record

(S615) Separate the transfer sheet

(S616) Discard the transfer sheet

(S617) Deliver out the support member (C)

b) End

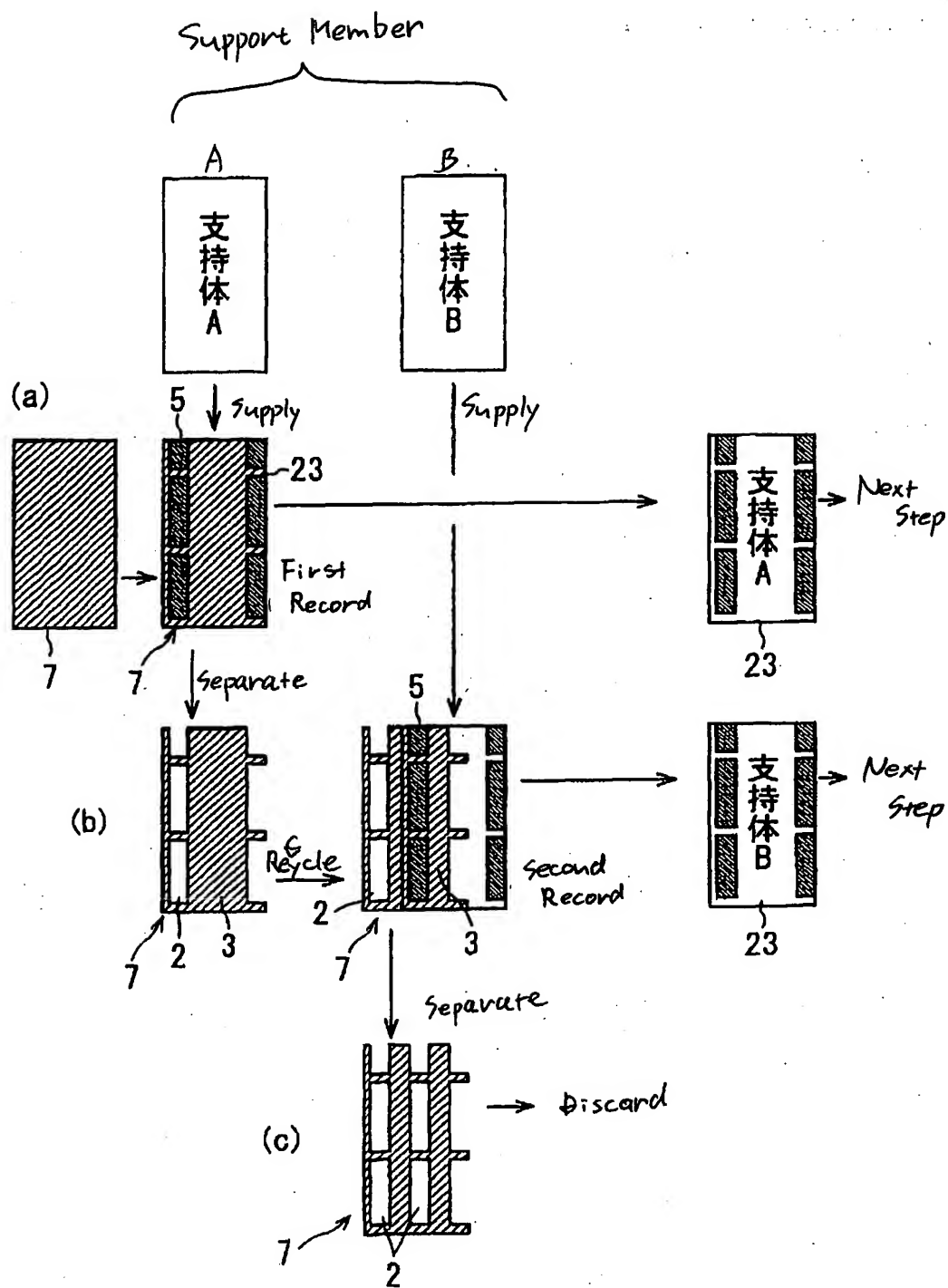
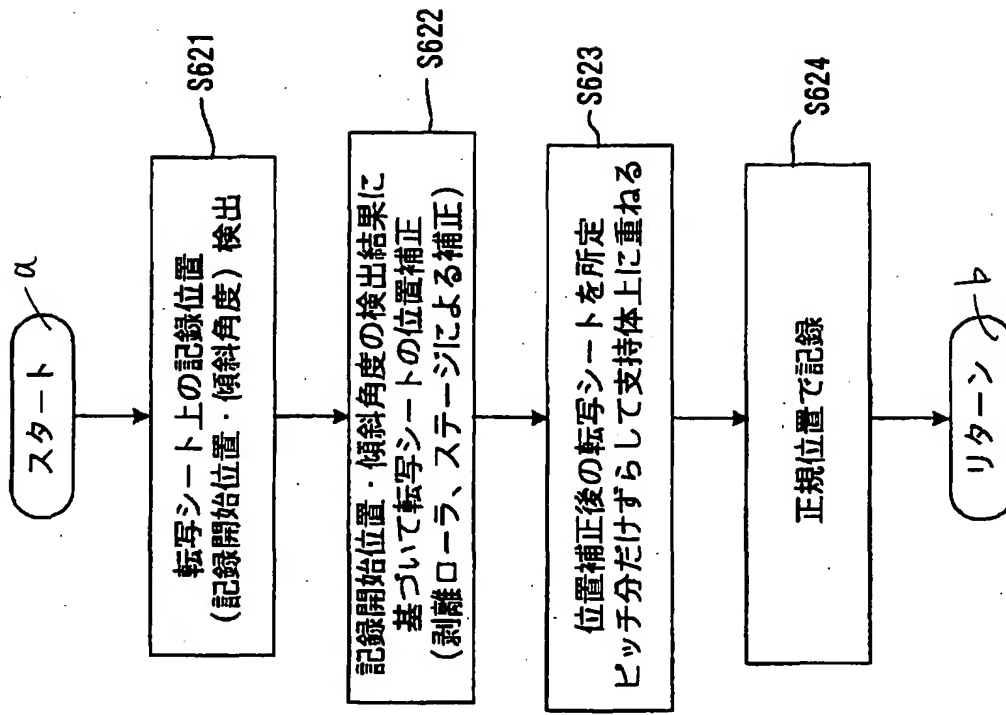


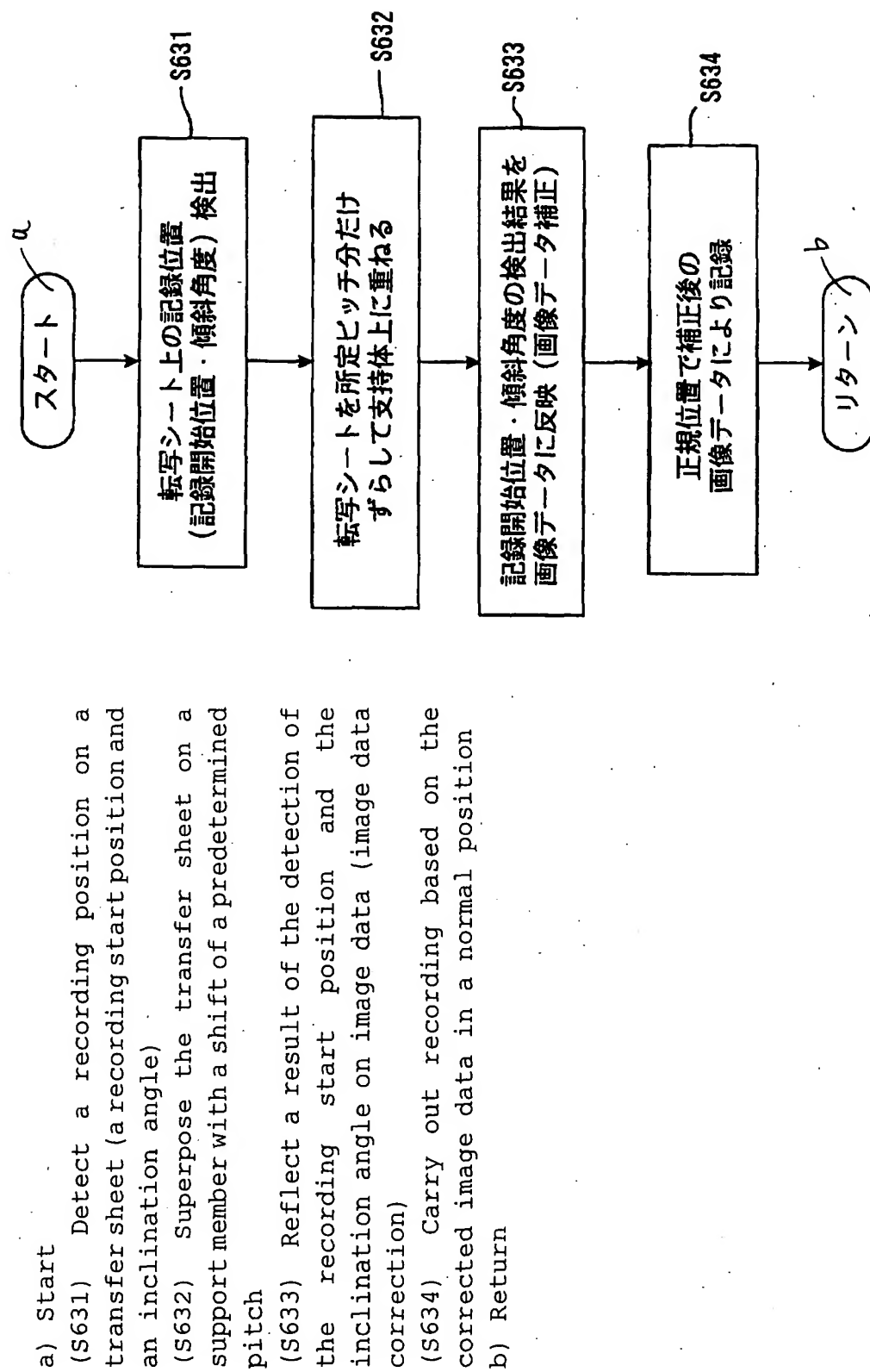
Fig.36

Fig. 37



- a) Start
(S621) Detect a recording position on a transfer sheet (a recording start position and an inclination angle)
(S622) Correct the position of the transfer sheet based on a result of the detection of the recording start position and the inclination angle (correction to be carried out by a separating roller and a stage)
(S623) Superpose the transfer sheet obtained after the correction of the position on a support member with a shift of a predetermined pitch
(S624) Carry out recording in a normal position
b) Return

Fig. 38



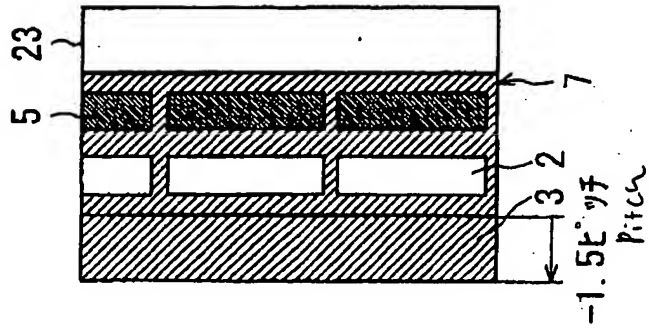


Fig. 39(a)

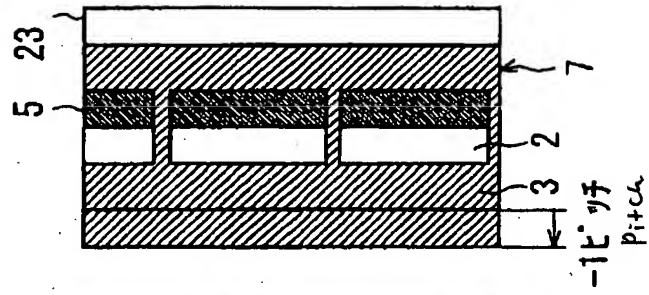


Fig. 39(b)

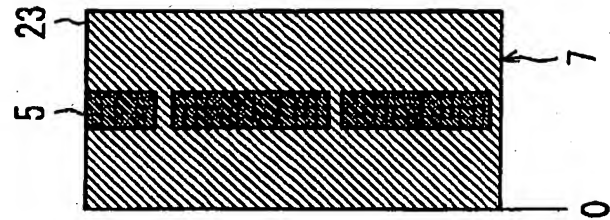


Fig. 39(c)

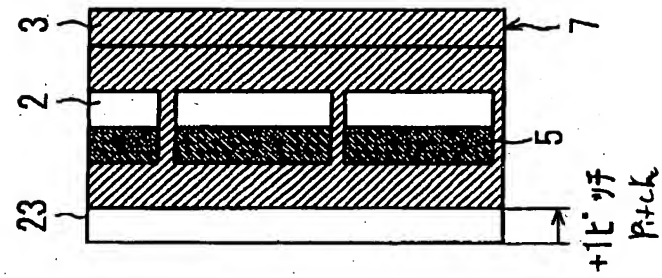


Fig. 39(d)

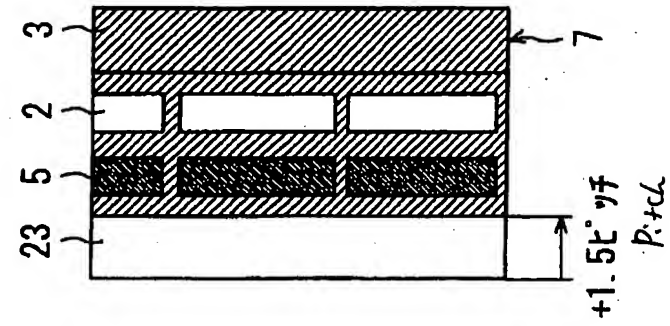


Fig. 39(e)

Fig. 40(a)

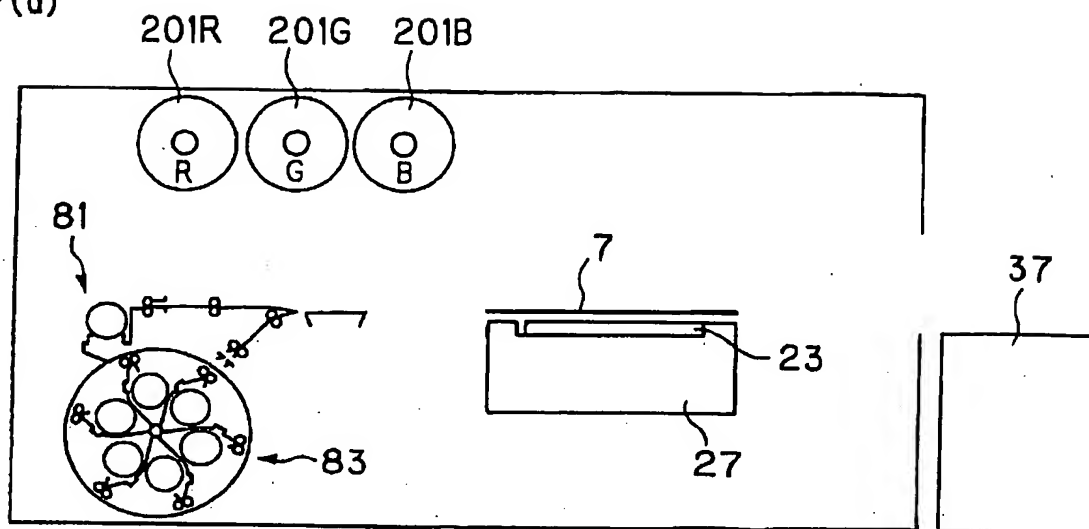
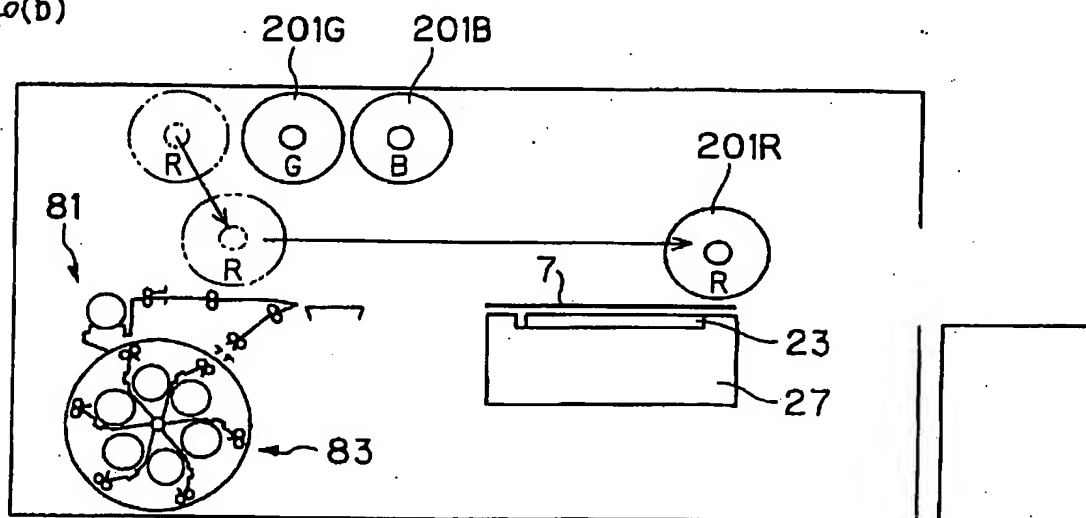


Fig. 40(b)



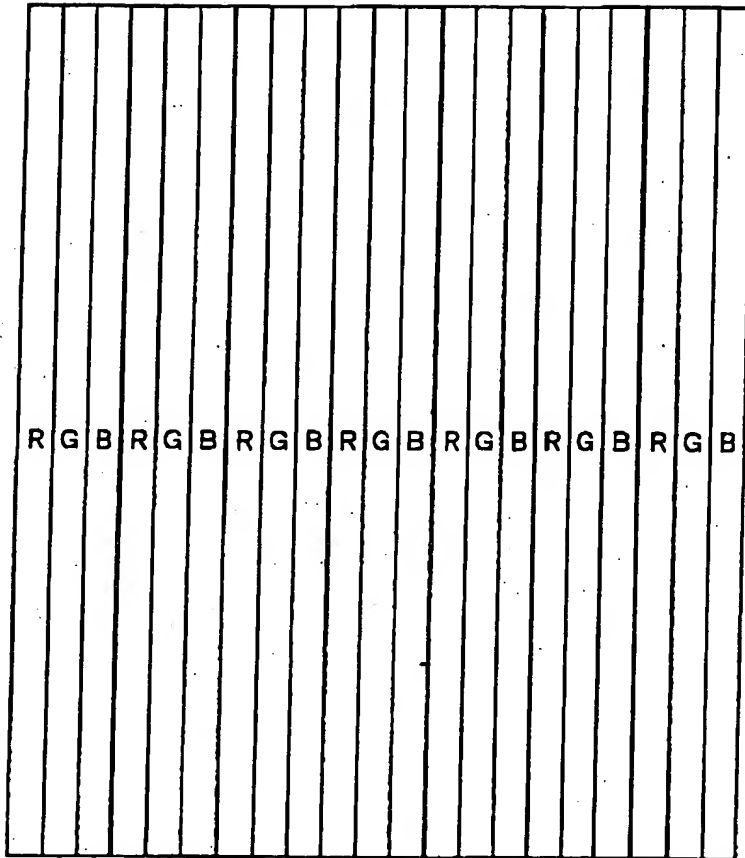


Fig. 41.

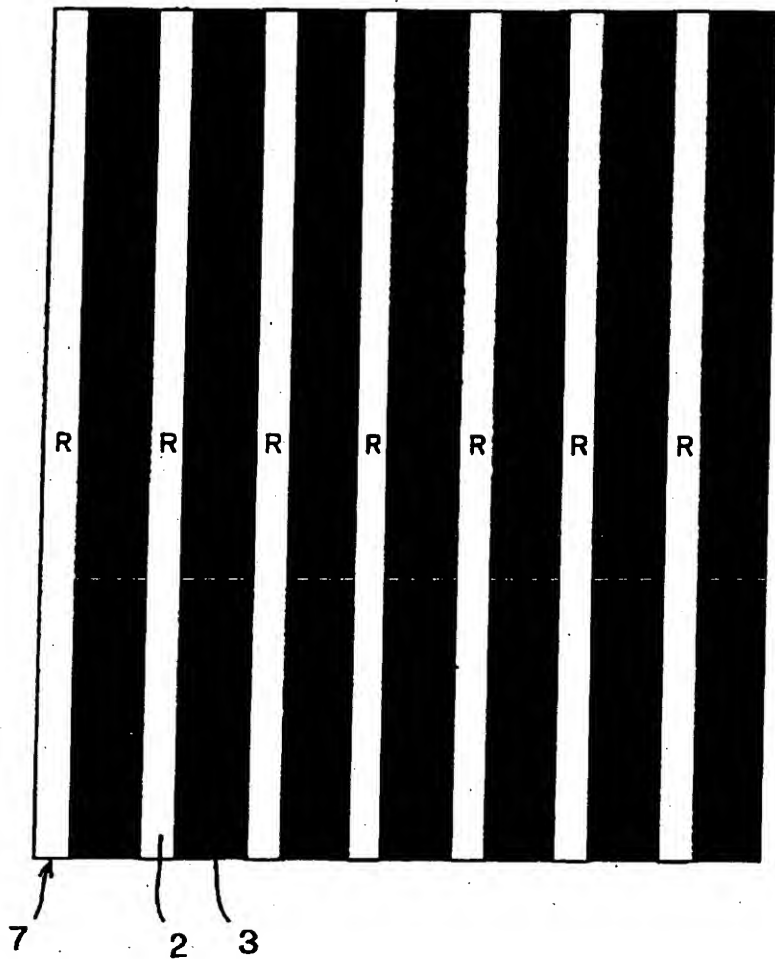


Fig. 42

R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R
B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R
B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R
B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B	R	G	B

Fig. 43

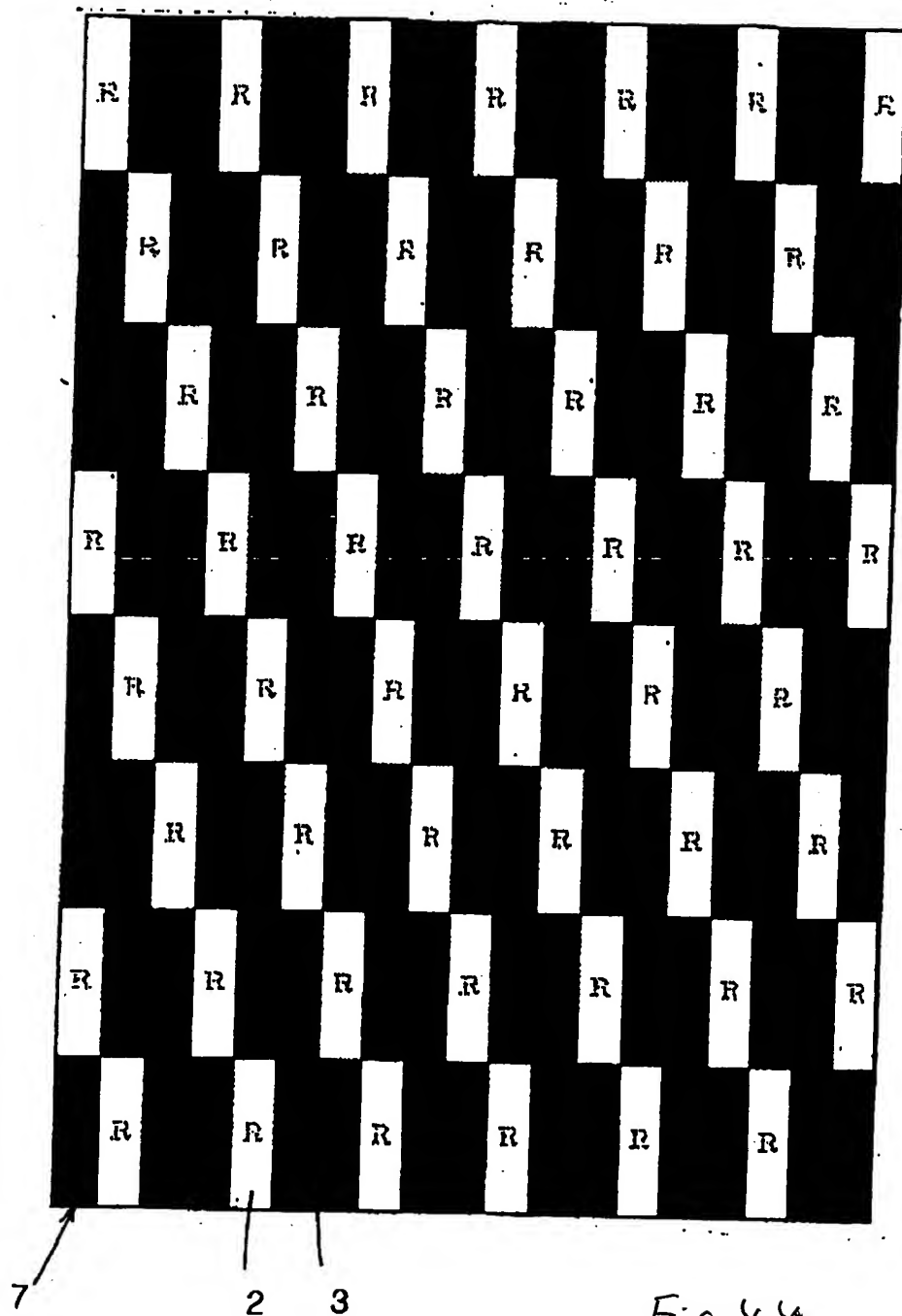


Fig. 44

R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
B	R	G	B	R	G	B	R	G	B	R	G	B	R	G
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
B	R	G	B	R	G	B	R	G	B	R	G	B	R	G
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
B	R	G	B	R	G	B	R	G	B	R	G	B	R	G
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
B	R	G	B	R	G	B	R	G	B	R	G	B	R	G
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
B	R	G	B	R	G	B	R	G	B	R	G	B	R	G
R	G	B	R	G	B	R	G	B	R	G	B	R	G	B
B	R	G	B	R	G	B	R	G	B	R	G	B	R	G

Fig. 45

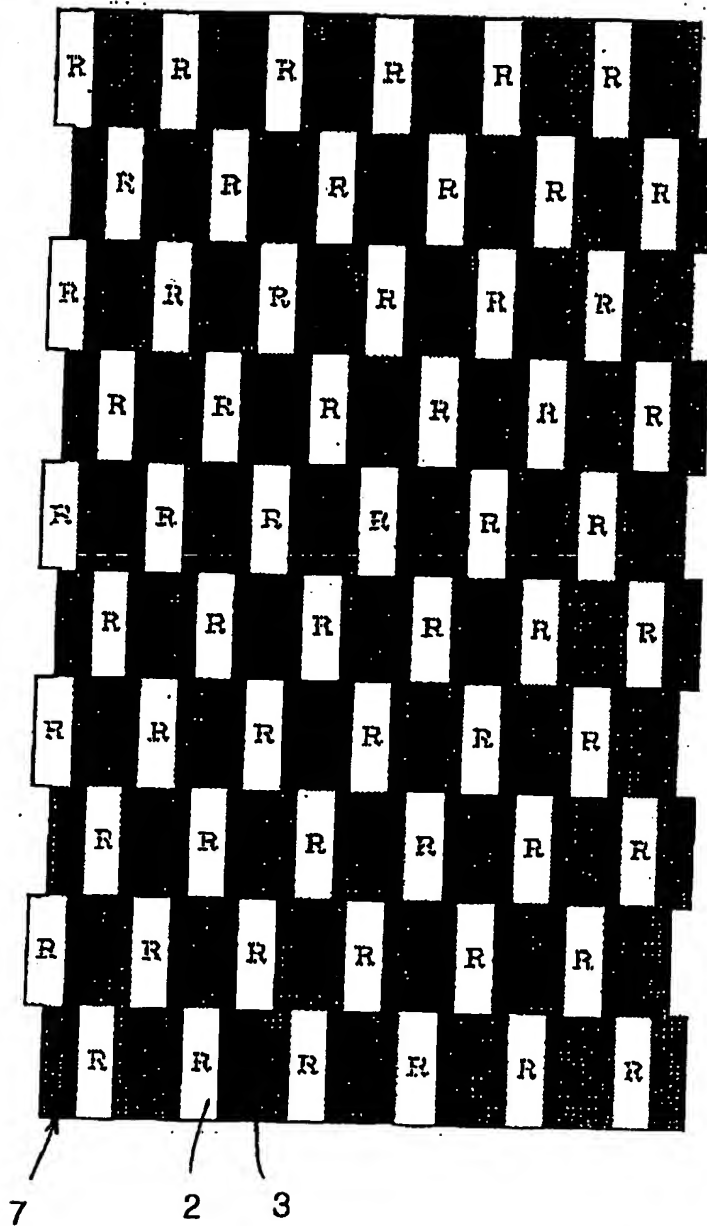


Fig. 46

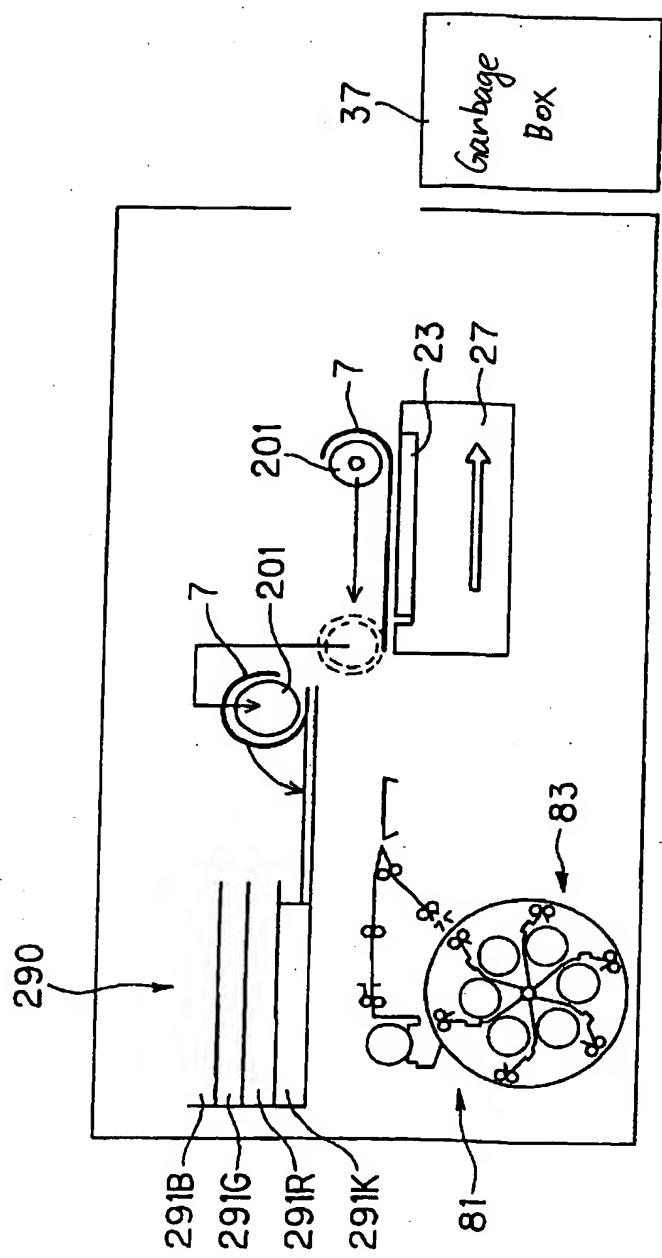
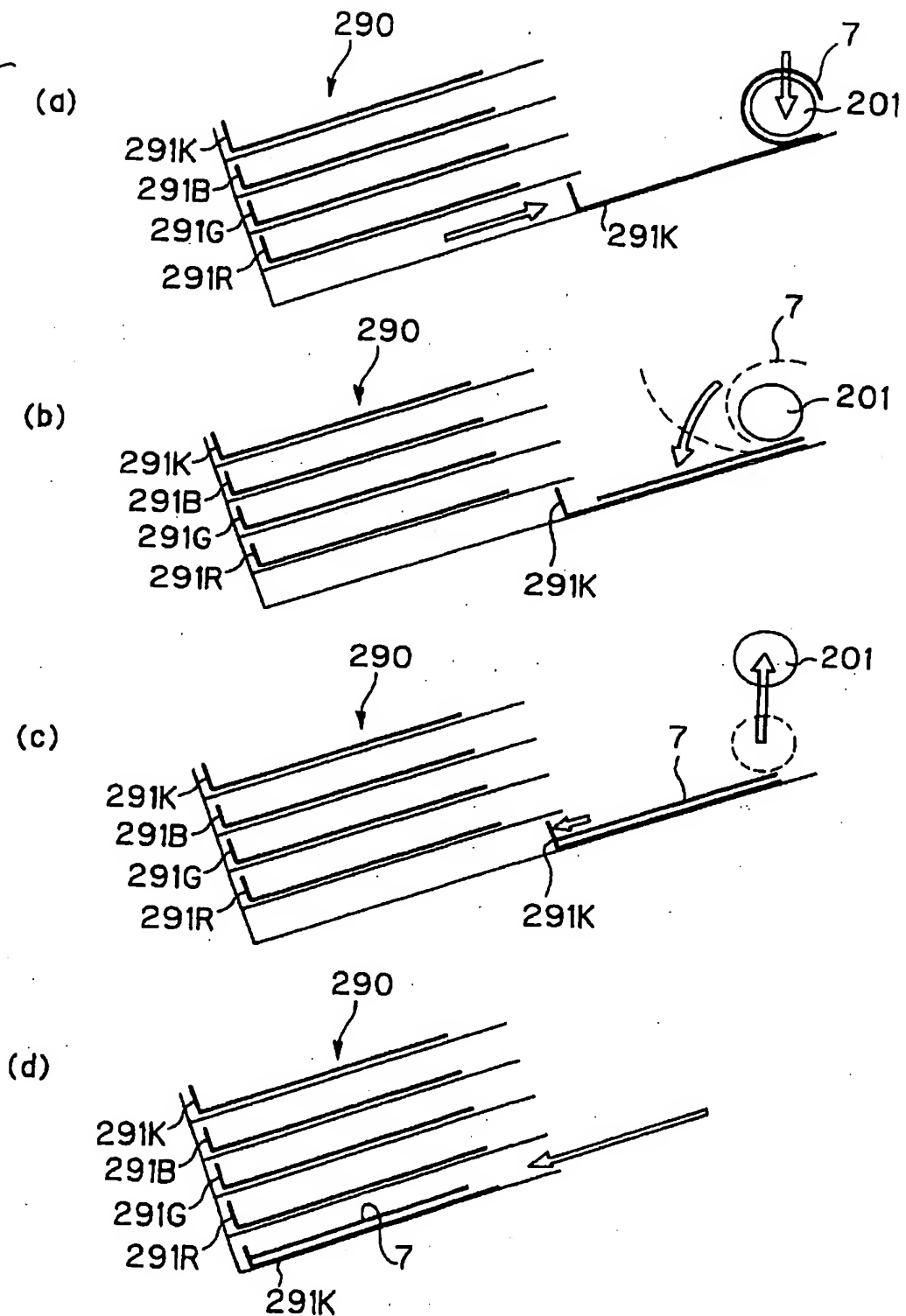


Fig. 47

Fig. 48



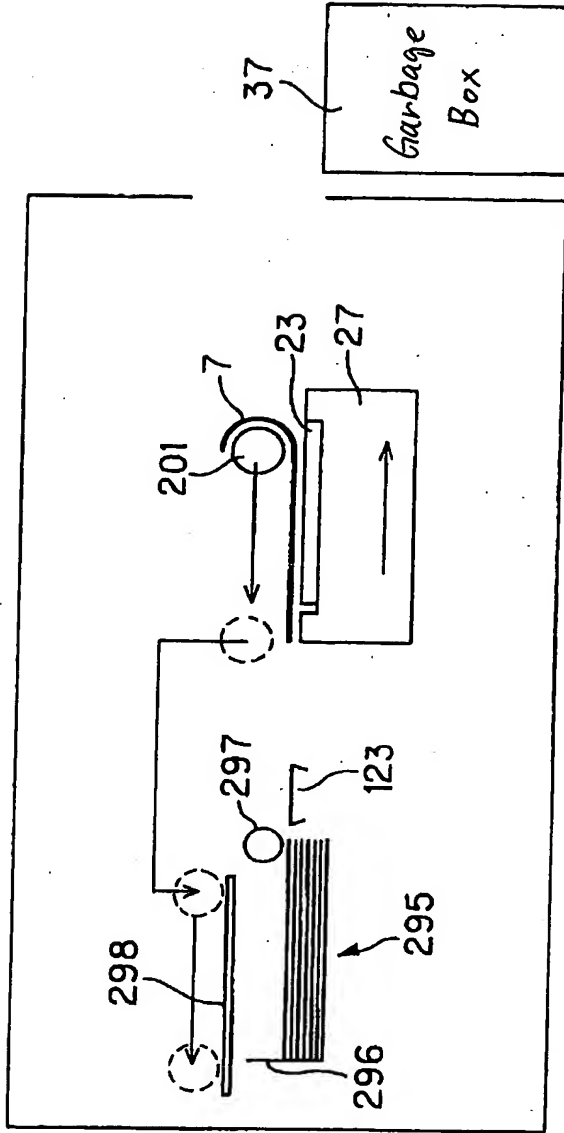


Fig. 49

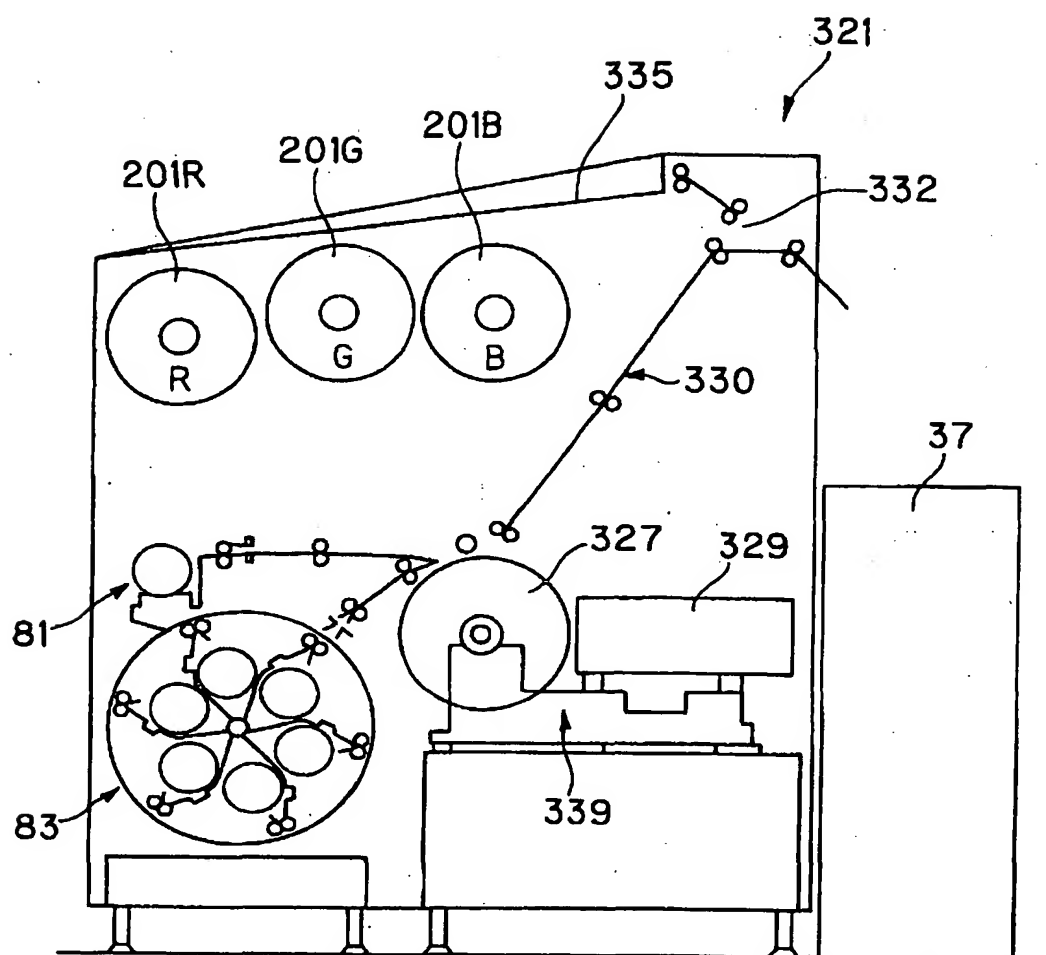


Fig. 50

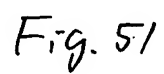


Fig. 51

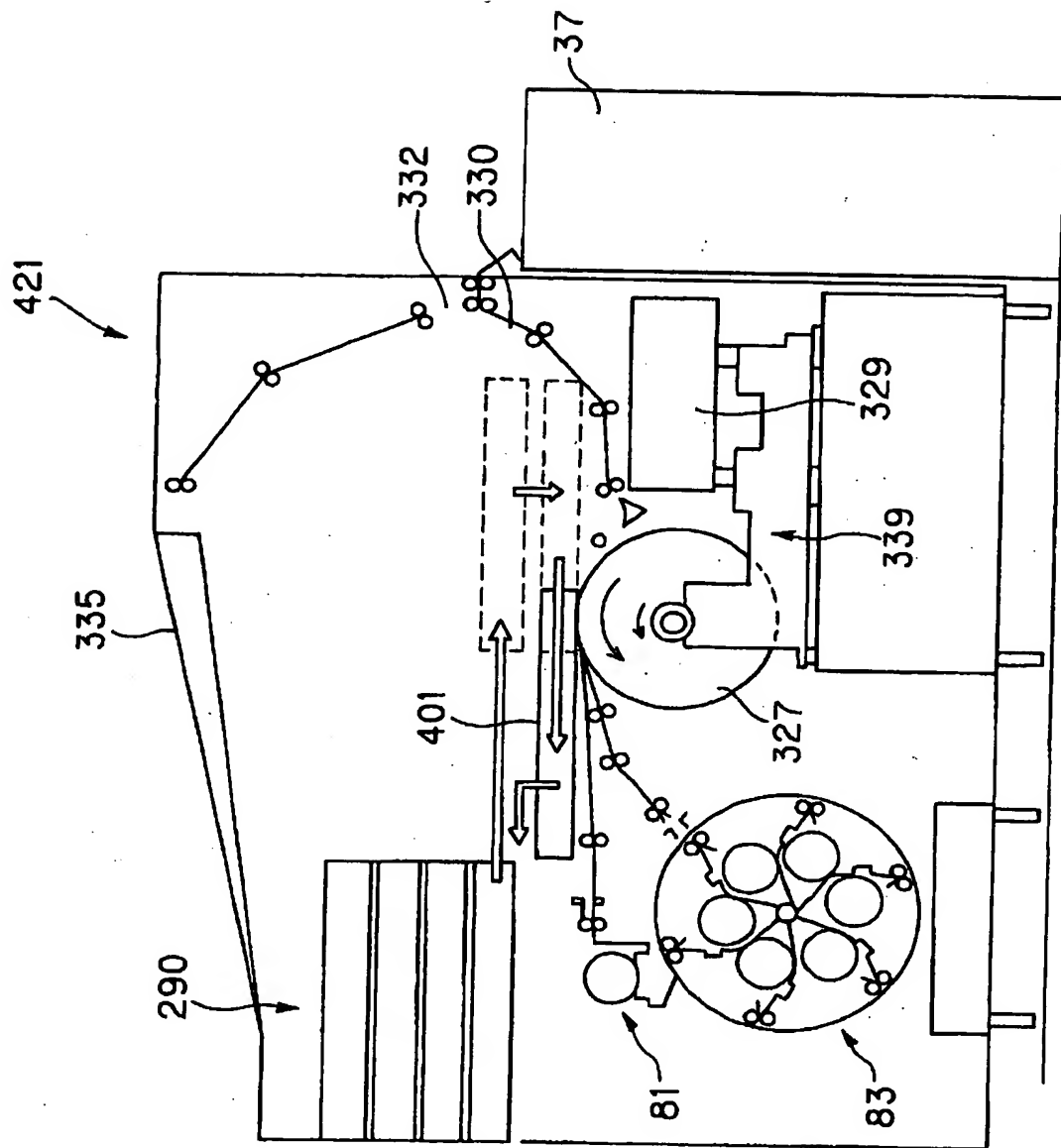


Fig. 52

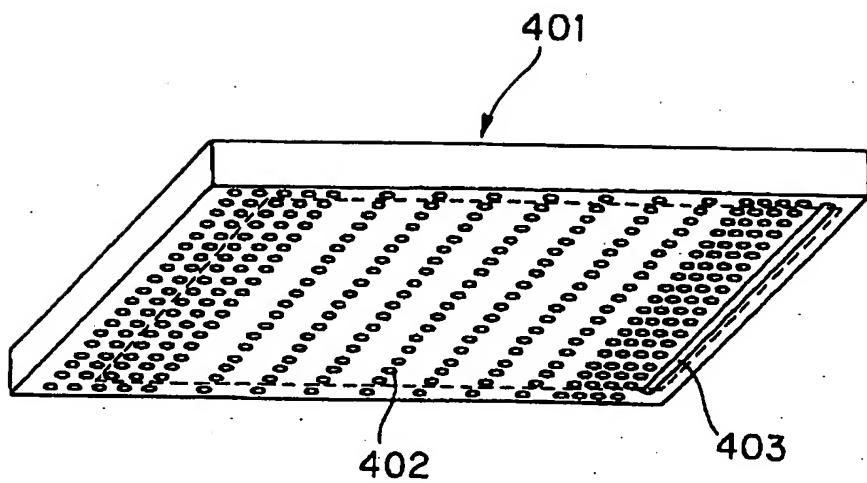


Fig. 53

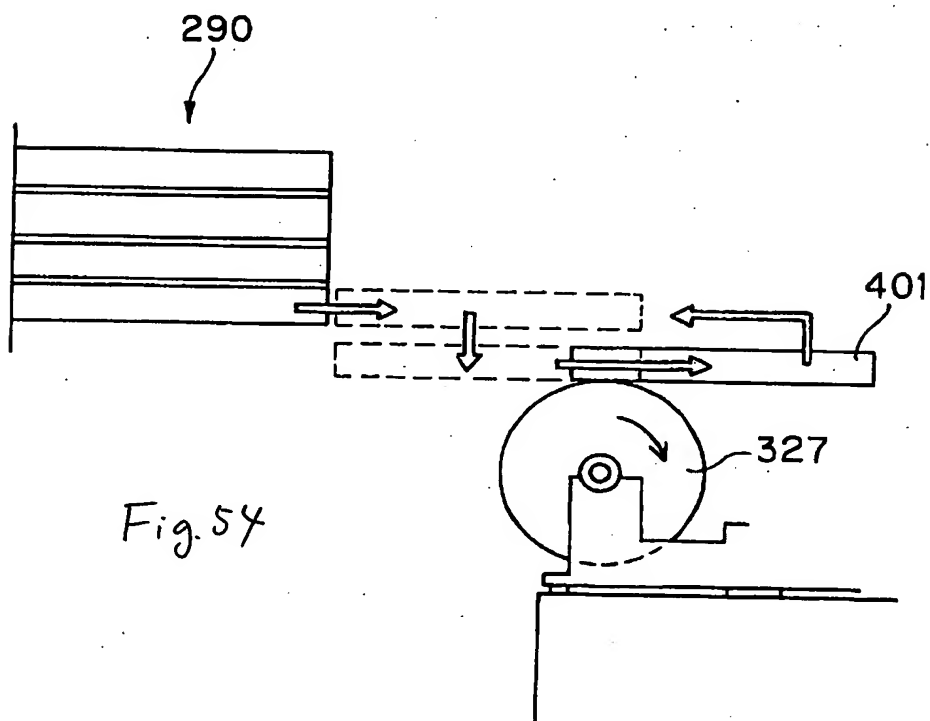


Fig. 54

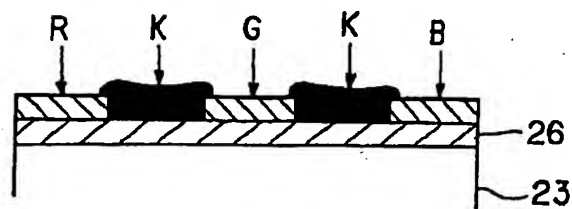
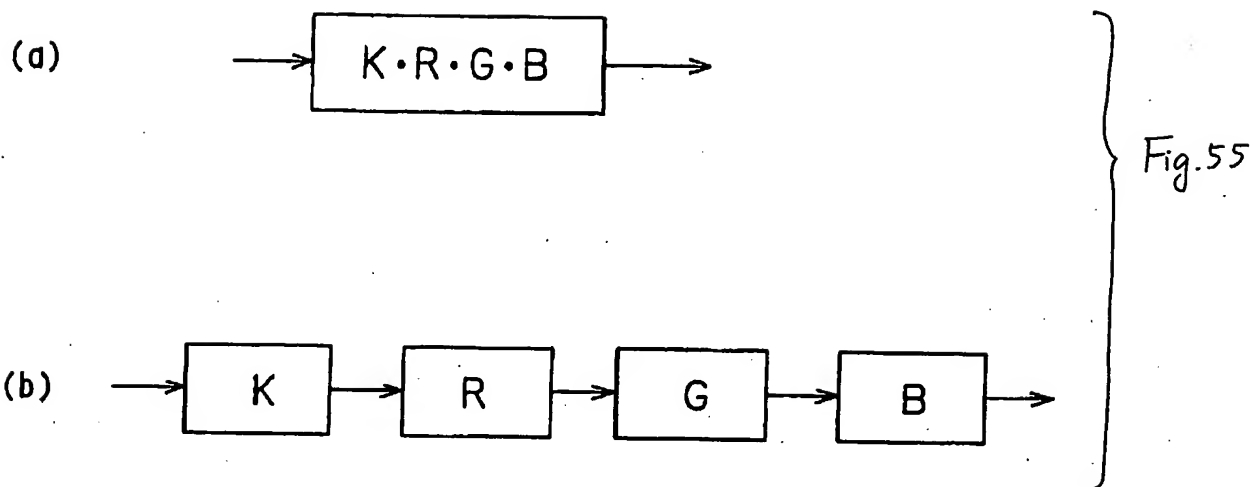
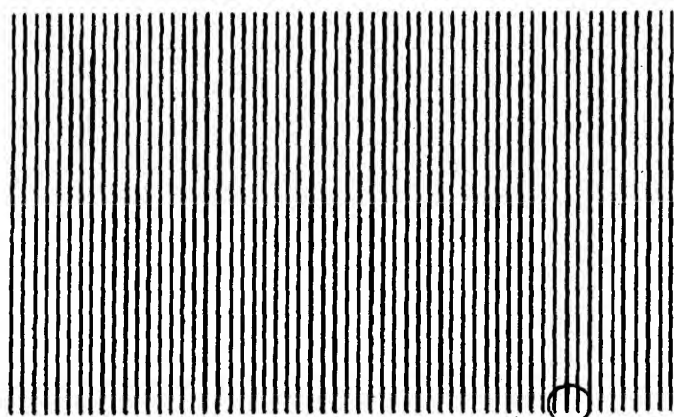


Fig. 56

(a)



(b)

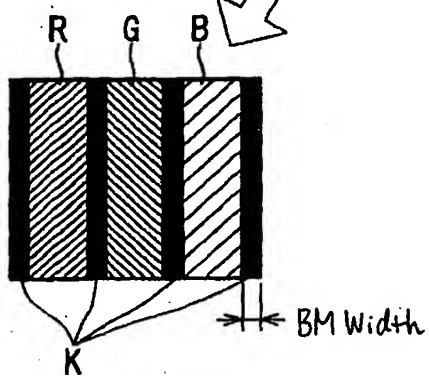


Fig. 57

Lateral Direction

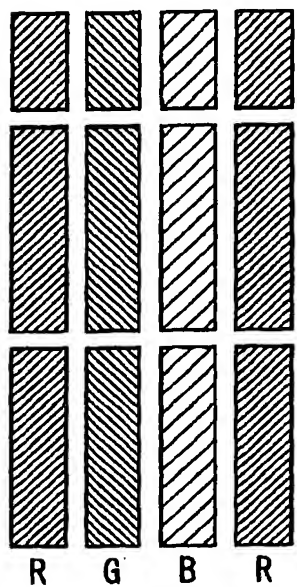


Fig. 58

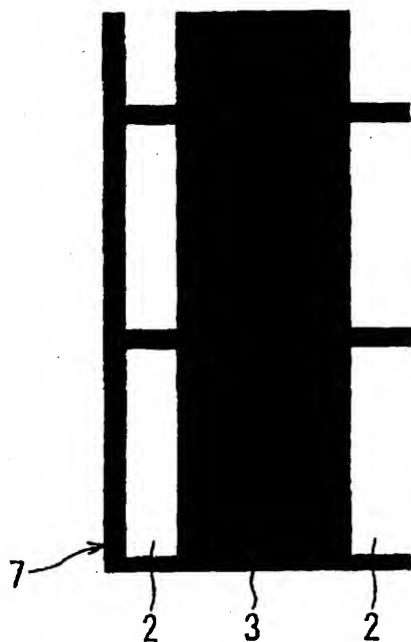


Fig. 59